XR-C750

SERVICE MANUAL

US Model
E Model

SPECIFICATIONS

Model Name Using Similar Mechanism	XR-C500
Tape Transport Mechanism Type	MG-52B-135

AUDIO POWER SPECIFICATIONS (US model)
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
17 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1 % total harmonic distortion.

Cassette player section

Tape track 4-track 2-channel stereo
Wow and flutter 0.08% (WRMS)
Frequency response 30 - 20,000 Hz
Signal-to-noise ratio

Cassette type	Dolby B NR	Dolby C NR	Dolby NR off
TYPE II, III, IV	67 dB	73 dB	61 dB
TYPE I	64 dB	70 dB	58 dB

Tuner section

FM

Tuning range US model :
87.5 - 107.9 MHz
E model :
FM tuning interval :
50 kHz/200 kHz switchable
87.5 - 108.0 MHz
(at 50 kHz step)
87.5 - 107.9 MHz
(at 200 kHz step)
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz
Usable sensitivity 9 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz
0.5% (stereo), 0.3% (mono)
Separation 35 dB at 1 kHz
Frequency response 30 - 15,000 Hz
Capture ratio 2 dB

AM (US model)

Tuning range 530 - 1,710 kHz
Antenna terminal External antenna connector
Intermediate frequency 10.71 MHz/450 kHz
Sensitivity 30 µV

MW (E model)

Tuning range MW tuning interval :
9 kHz/10 kHz switchable
531 - 1,602 kHz
(at 9 kHz step)
530 - 1,710 kHz
(at 10 kHz step)
Antenna terminal External antenna connector
Intermediate frequency 10.71 MHz/450 kHz
Sensitivity 30 µV

– Continued on next page –

FM/AM CASSETTE CAR STEREO
US Model
FM/MW/SW CASSETTE CAR STEREO
E Model

MICROFILM

SONY®

SW1, 2 (E model)

Tuning range	SW1 : 2,940 - 7,735 kHz SW2 : 9,500 - 18,135 kHz (except for 10,140 - 11,575 kHz)
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	50 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 - 8 ohms
Maximum power output	40 W × 4 (at 4 ohms) US model : 35 W × 4 (at AM band, 4 ohms) E model : 35 W × 4 (at MW and SW band, 4 ohms)

General

Outputs	Line outputs (3) Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ± 8 dB at 100 Hz Treble ± 8 dB at 10 kHz
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 184 × 50 × 176 mm (7 1/4 × 2 × 6 7/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 163 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.3 kg (2 lb. 14 oz.)
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Rotary remote RM-X2S (1) Wireless remote RM-X45 (1) (E model)

Design and specifications are subject to change without notice.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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This section extracted from
US model's instruction manual.

SECTION 1
GENERAL

Cassette Player

Listening to a tape

1 Press (SOURCE) and insert a cassette.

Playback starts automatically.

2 Close the front panel.

If a cassette is already inserted, press (SOURCE) until "TAPE" or "REV" appears to start playback.

The side facing up is being played.

The side facing down is being played.

Hint

- To change the tape type specification, press (OPTION) (48).
- "Metal" appears for Sony tapes and some other brand tapes that require Metal position.

To	Press
Stop playback	(OFF)
Eject the cassette	(OPEN) on the

Fast-winding the tape

During playback, press either side of (SEARCH) for one second.

Fast-forward

Rewind

To start playback while fast forwarding or rewinding, press (MODE) (48).

Setting the clock

The clock has a 12-hour digital indicator.

Example: Set the clock to 10:00.

1 Press (OPTION), then press (SETUP).

● Press (+) (+).

The hour digits flash.

● Set the hour.

To go backward

To go forward

● Press (+) (+).

The minute digits flash.

● Set the minute.

To go backward

To go forward

2 Press (OPTION).

The clock starts.

Hint

When pressing SELECT switch on the bottom of the unit in step ●, you can set the power on time. When in the mode for the Bluetooth connection, press (SOURCE).

Location of controls

Refer to the pages for details.

A (OPEN/BACK (eject/Automatic Music Sensor/previous/next) button 5, 6, 7, 8, 22, 23, 24, 27

B MODE (tuner select, changer select, tape transport control) button 5, 7, 15, 17, 23, 25

C SOURCE (source select) button 5, 7, 8, 16, 22, 23, 24

D SOUND button 10

E Display window

F ⏏ (eject) button located on the front of the unit hidden by the front panel 5

G DSPL button (display mode change) button 5, 6, 9, 14, 15

H OPEN button 4, 5, 18

I LIST button
Disc Memo 15
Clock 9, 13
Station Memo 8

J OFF button 4, 9

K Reset button located on the front of the unit (hidden by the front panel) 4

L Dial (volume/customized information/treble/balance/fader control) 5, 10

M SHIFT button
Effect 7
Tuner 9, 10, 11, 12
PLAY MODE 6, 7, 8, 15, 16, 17, 26

N Analog radio reception:
Preset number buttons 1, 8
During CD/MD playback:
Direct disc selection buttons 1)

O "POWER SELECT" switch (located on the bottom of the unit)
See "POWER SELECT Switch" in the Installation/Connections manual.

P Remote sensor

Locating the beginning of a track
— Automatic Music Sensor (AMS)

You can skip up to nine tracks at one time.

During playback, press either side of (AMS) momentarily.

- ▶| : to the beginning of the next track
- |◀ : to the beginning of the current track

Notes
- The AMS may not work well when:
  - the blank between tracks is too short.
  - there is noise between tracks.
  - there is a long portion of low volume in your tracks.

Changing the displayed item

Each time you press (DISC), the item changes as follows.

▶ Track playback → Clock → Tape counter

* While the AM function is selected.

Playing tracks repeatedly
— Repeat play

You can repeat play the current track.

1 During playback, press (SHIFT).
Each time you press (SHIFT), only the items you can select light up.

2 Press (3) (REP).
Repeat play starts.

To go back to the normal playback mode, press (3) again.

3 Press (SHIFT).

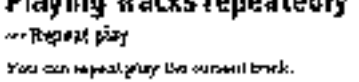
Playing a tape in various modes

You can play the tape in various modes:
- Intro Scan: Sound helps you play the first 10 seconds of all the tracks.
- MK Dolby NR: lets you select the Dolby* NR B or C system.
- ATA (Automatic Tone Activator): turns on the tuner automatically while fast-winding the tape.
- B.Skip (Blank Skip): skips blank tracks over eight seconds.

* Dolby NR noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

1 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until the desired play mode appears.
Each time you press (3), the item changes as follows.

intro → MK → AMS → B.Skip



2 Press (2)(+) to select the desired play mode setting (for example, intro on).

Playback starts.

3 Press (SHIFT).

To go back to the normal playback mode, select "off" or step 2 above.

Radio

Memorising stations automatically
— Best Tuning Memory (BTM)

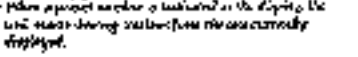
The unit selects the stations with the stronger signals and memorises them. You can store up to 10 stations on each band (FM 1, FM 2 and AM).

Caution
When tuning in stations while in stop, use Best Tuning Memory to prevent accidents.

1 Press (BAND) repeatedly to select the tuner.
Each time you press (BAND), the tuner changes as follows.

tape ↔ tuner

2 Press (BAND) repeatedly to select the desired band.
Each time you press (BAND), the band changes as follows.



3 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until "B.T.M" appears.

4 Press (1) (+) until "B.T.M" flashes.
The unit stops stations in the order of their frequencies on the number buttons.
A beep sounds and "Receiving" is stored.

5 Press (SHIFT).

Notes
- If there are not enough radio signals, only the stations received are stored, and the other buttons remain empty.
- When a preset number is indicated in the display, the unit starts storing stations from the one currently displayed.

Memorising only the desired stations

You can store up to 10 stations on each band (FM 1 and FM 2, 5 for AM) in the order of your choice.

1 Press (BAND) repeatedly to select the tuner.

2 Press (TUNING) repeatedly to select the desired band.

3 Press either side of (TUNING) to tune in the station you want to store on the number button.

4 Keep the desired number button (1 to 10) pressed until "MEM" appears in the display.

The number button you have pressed appears in the display.

Note
If you try to store another station on the same number button, the previously stored station will be erased.

Receiving the memorized stations

1 Press (SOURCE) repeatedly to select the tuner.

2 Press (BAND) repeatedly to select the desired band.

3 Press the number buttons (1 to 10) momentarily where the desired station is stored.

If your receiver tunes in a preset station

Press either side of (SEEK/AMS) momentarily to start the Preset Search (automatic tuning).
Tuning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

Note
If the receiver is tuning stops too frequently, press (SEEK/AMS), then press (PLAY MODE) repeatedly until "Local" (local set) appears. Then press (TUNING +) to select "Local Off". Press (ENTER).
Only the stations with sufficient signal strength will be tuned in.

Tip
If you know the frequency of the station you want to tune in, press and hold either side of (SEEK/AMS) for a few seconds until the desired frequency appears in the display.

If the station is not in preset. To tune in manually

1 Press (SOURCE), then press (PLAY MODE) repeatedly until "Manual" appears.

2 Press (TUNING +) or – repeatedly until "Manual On" appears.
The sound is paused, but the tuner is remains in tuning mode ("ST" disappears).

3 Press (SOURCE).
To go back to the normal radio mode, follow the same steps as above.

Changing the displayed item

Each time you press (DISPLAY), the item changes as follows:

Frequency → Clock

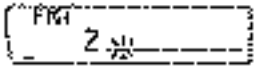
Storing the station names — Station Memo

You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can store up to eight characters for a station.

Storing the station names

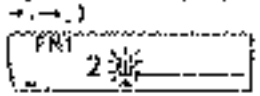
1 Tune in a station whose name you want to store.

2 Press (DISPLAY) for two seconds.



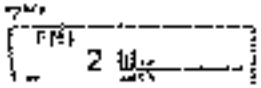
3 Enter the characters.

❶ Rotate the dial in a clockwise direction to select the desired characters.
(A → B → C → ... 9 → 0 → + → - → * → / → = → < → > → _)



If you rotate the dial in a counterclockwise direction, the characters appear in the reverse order.
If you want to put a space between characters, select "_" (under bar).

❷ Press (TUNING +) after locating the desired character.
The flashing cursor moves to the right.



If you press (TUNING –), the flashing cursor moves to the left.

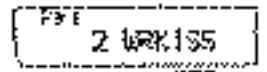
❸ Repeat steps ❶ and ❷ to enter the entire name.

4 To return to the normal radio reception, press (DISPLAY) for two seconds.

Tip
To maintain a space, enter "_" (under bar) twice consecutively.

Displaying the station name

Press (DISPLAY) during radio reception.



Each time you press (DISPLAY), the item changes as follows:

→ Frequency → Clock → Station name* →

* *If the station name is not stored, "NO NAME" appears in the display for one second.*

Erasing the station name

1 Tune in any station and press (DISPLAY) for two seconds.

2 Press (ENTER) for two seconds.
"Delete" and the station name appear in the display.

3 Rotate the dial to select the name that you want to erase.

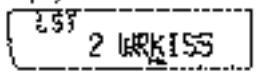
4 Press (ENTER) for two seconds.
The name is erased.
To erase other names, repeat steps 3 and 4.

5 Press (DISPLAY) for two seconds.
The unit returns to the normal radio reception mode.

Locating a station by frequency and name — Set-up

You can search for the preferred stations names in the display.

1 Press (SET UP) momentarily.
The frequency or the name assigned to the station currently receiving appears in the display.



2 Press (SET UP) repeatedly until you find the desired station.

3 Press (ENTER) to tune in the desired station.

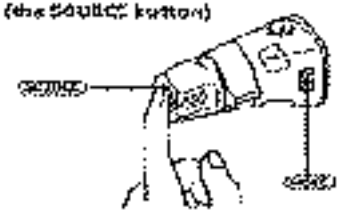
Note
Once the station name or frequency has been displayed for the second, the display goes back to the normal mode. To go back to the normal mode, press (DISPLAY).

Other Functions

Using the rotary remote

The rotary remote works by pressing buttons and/or rotating controls.
You can control the following CD or MD changer with the rotary remote.

By pressing the buttons (the SOURCE button)



Each time you press (SOURCE), the source changes as follows:

Tuner → CD → MD → Tape

Pressing (SOURCE) changes the operation in the following ways:

- the tape transport direction
- the band: FM1 → FM2 → AM
- the CD changer: CD1 → CD2 → ...
- the MD changer: MD1 → MD2 → ...

Tip
You can turn on the unit by pressing (SOURCE) on the rotary remote.

By rotating the control (the SEEK/AMS control)

Rotate the control momentarily and release it to:

- Locate the beginnings of the tracks on the tape. Rotate and hold the control and release it to locate the tape. To playback, rotate and hold the control again, and release it.
- Locate a specific track on a CD or MD. Rotate and hold the control until you locate the specific point in a track, then release it to start playback.

continue to next page →

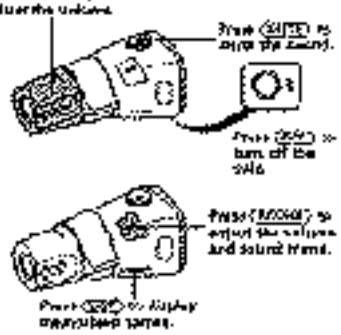
• Tune in stations automatically. Rotate and hold the control to tune in a higher/lower station.

By rotating the control while pushing in (the PRESET/DISC control)

Push in and rotate the control to:
• Receive the station memorized on the preset buttons.
• Change the disc.

Other operations

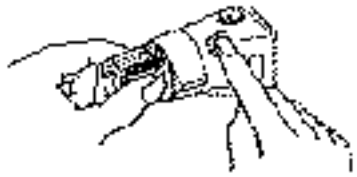
Rotate the ring, however, to adjust the volume.


Press (SHIFT) to enter the setup.
Press (DSO) to turn off the side
Press (ROOM) to adjust the volume and sound field.
Press (DSO) to display playback times.

Changing the operative direction

The operative direction of controls is factory preset as the illustration below.

If you need to position the rotary remote on the right of the operating position, you can reverse the operative direction of the controls.



Press (DSO) two seconds while pausing the VOL control.

Tip
You can change the demonstration mode (page 20) and illumination (page 21).

Adjusting the sound characteristics

You can adjust the subwoofer volume, bass, treble, balance and fader.
Each source can have the sub output, bass and treble level respectively.

1 Select the item you want to adjust by pressing (SOUND) repeatedly.

SUB (subwoofer) → BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader)

2 Adjust the selected item by rotating the dial.
Adjust within three seconds after selection. After three seconds, the dial works as the volume control dial.

Muting the sound

The unit decreases the volume automatically when a telephone call is received (Telephone mute function).

Changing the sound and display settings

You can set:
- Clock (page 5)
- D.Info (Dual Information) – to display the clock and the play mode at the same time (DUAL) or to display the information alternately (ALT).
- Amber/Green – to change the illumination color to amber or green.
- Dimmer – to change the brightness of the display.
  — Select "Auto" to dim the display only when you turn the ignition.
  — Select "On" to dim the display.
- Contrast – to adjust the contrast if the indications in the display are not recognizable because of the unit's installed position.
- Beep – to turn on or off the beep.
- Rot Rotary Remote – to change the operative direction of the controls of the rotary remote.
  — Select "Pause" to use the rotary remote in the factory preset position.
  — Select "Vol" when you reverse the rotary remote on the right side of the steering column.
- Loud – to enhance bass and treble sounds at low volume. The bass and treble will be emphasized.
- LPF (Low Pass Filter)
- A.Scrl (Auto Scroll) (page 12)
- Title (Title/Disc Title) – to name titles/discs (CD TEXT cannot be changed). Display does not appear when you connect an optional CD changer with the CD-TEXT and disc name function.

Note
The displayed items will differ depending on the source.

1 Press (SHIFT), then press (1) (SET UP).

2 Press (2) (SET UP) repeatedly until the desired setting mode appears.

Each time you press (3) (SET UP), the item changes as follows:

Clock → Dinfo → Amber/Green → Dimmer → Contrast → Beep → Rot → Loud → LPF → A.Scrl → Title (CD TEXT only)

3 Press (4) (−−) to select the desired setting (for example, "On" or "Off").
For the "Contrast" setting, pressing (3) (++) makes the contrast higher, and pressing (5) (−−) makes the contrast lower.

4 Press (SHIFT).
When the mode setting is complete, the normal playback mode appears.

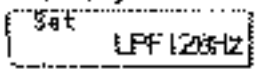
Adjusting the frequency of the subwoofer(s)

To match the characteristics of the connected subwoofer(s), you can cut out the unwanted high and middle frequency signals entering the subwoofer(s). By setting the cut-off frequency, the sub woofer(s) will output only low-frequency signals so you can get a clearer sound image.

1 Press (SOURCE) to select a source (radio, tape, CD, or MD).

2 Press (SHIFT), then press (1) (SET UP) repeatedly until "LPF" appears.

3 Press (4) (−−) repeatedly to select desired setting.



Each time you press (4) (−−), the cut-off frequency in the display changes as follows:

THROUGH (all frequencies pass through) ← 80Hz ← 120Hz ← 160Hz

If you press (3) (++), the screen appears in reverse order.

4 Press (SHIFT).
When the frequency setting is complete, the display goes back to the normal playback mode.

Other Optional Equipment

CD/MD Changer

If you connect an optional CD changer with the LINK jack, the CD/MD changer indication appears in the display when you playback a CD-TEXT disc.

Playing a CD or MD

1 Press (SOURCE) repeatedly to select the CD or MD.

2 Press (MODE) until the desired changer indication appears in the display.
CD/MD playback starts.

Changing the displayed item

Each time you press (DISP) during CD, CD TEXT or MD playback, the item changes as follows:

Elapsed playback time
↓
Disc name*/Artist name*
↓
Track name*
↓
Clock

* If you have not labeled the CD or disc, or you have not programmed an MD, "NO NAME" appears in the display.
** If you play a CD-TEXT disc, the title name appears in the display after the first track. (Only for CD-TEXT discs with the artist name)
** If the artist name in a CD-TEXT disc or MD is not programmed, "NO NAME" appears in the display.

You can label a maximum of 6 discs for CDs and CD-TEXT discs with the title name function, refer to "Labeling a CD" (page 8).

Tip
If the name of the CD-TEXT disc or MD is too long, you can scroll the name for display by pressing (SHIFT) then (DISP).

Automatically scrolling a disc name
— Auto Title Scroll

If the disc name/artist name or track name on a CD-TEXT or MD disc exceeds 10 characters and the Auto Scroll function is on, automatically scrolls on the display as follows.
- The disc name appears from the first character after the same is inserted.
- The track name appears when the track has changed if the track name is long.
- The name is not scrolled again when you press (DISPLAY) to select MD or CD-TEXT title.

If you press (DISPLAY) to change the display from the current track name of the MD or CD-TEXT disc, it is not automatically scrolled whether you set the function on or off.

1 Press (SELECT), then press (3) (SET UP) repeatedly until "A. Scrl" appears.

2 Press (4) (–) to select "A. Scrl on."

3 Press (SELECT).

To make Auto Scroll, select "A. Scrl off" in step 2 above.

Note
For some CD-TEXT discs and MD, correctly may not be displayed or may appear as follows:
- Some of the characters are not displayed.
- Auto Scroll does not work.

Displaying the recording date of the currently selected MD

Press (DISP) for two seconds during playback.
The recording date of the track is displayed for about three seconds.

Locating a specific track
— Automatic Music Sensor (AMS)

During playback, press either side of (REPEAT/AMS) once for each track you wish to skip.

To locate a preceding track

To locate a following track

Locating a specific point in a track
— Manual Search

During playback, press and hold either side of (REPEAT/AMS). Release the button when you have found the desired point.

To search forward

To search backward

Locating a disc by disc number
— Direct Disc Selection

Press the number button that corresponds with the desired disc number.
The desired disc in the currently selected changer begins playback.

Scanning the tracks
— Intro Scan

You can play (before) 10 seconds of all the tracks on the current disc.

1 During playback, press (SHIFT), then press (3) (SET UP/MODE) repeatedly until "Intro" appears.

2 Press (3) (+) repeatedly until "Intro on" appears.
Intro Scan starts.

3 Press (SHIFT).

To go back to the normal playback mode, select "Intro off" in step 2 above.

Playing tracks repeatedly
— Repeat Play

You can select:
- Repeat 1 to repeat a track.
- Repeat 2 to repeat a disc.
- Repeat 3 to repeat all the discs in the current changer when you connect two or more changers.

1 During playback, press (SHIFT), then press (4) (–) repeatedly until "Repeat" appears.

2 Press (3) (+) repeatedly until the desired setting appears.

Repeat 1 → Repeat 2 → Repeat 3 → Repeat off

Repeat play starts.

3 Press (SHIFT).

To go back to the normal playback mode, select "Repeat off" in step 2 above.

Playing tracks in random order
— Shuffle Play

You can select:
- Shuf 1 to play the tracks on the current disc in random order.
- Shuf 2 to play the tracks in the current changer in random order.
- Shuf 3 to play all the tracks in continuous order when you connected two or more changers.

1 During playback, press (SHIFT), then press (2) (SHUF) repeatedly until "Shuf" appears.

2 Press (3) (+) repeatedly until the desired setting appears.

Shuf 1 → Shuf 2 → Shuf 3 → Shuf off → Shuf 1

Shuffle play starts.

3 Press (SHIFT).

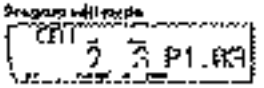
To go back to the normal playback mode, select "Shuf off" in step 2 above.

Creating a program

Program Memory (CD/MD changer with program memory function)

You can play tracks in the order you want by making your own program. You can make two programs: Program 1 and Program 2. You can select up to 32 tracks for each program. You can store the programs in memory.

1 Press (SOURCE) to tune press (3) (PLAY MODE) for two seconds.
Program edit mode



"P1" shows Program 1 is selected.

If you have labeled the disc, the bank edit mode appears. Press (3) (PLAY MODE) to display "TR" above.

To select Program 2, press (+) repeatedly until "P2" appears.

2 Select the track you want.

❶ Press (SOURCE) repeatedly to select the CD or MD.

❷ Press (MODE) repeatedly to select the changer.

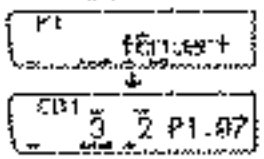
❸ Press (SHIFT), then press the number buttons to select the disc.

❹ Press (SHIFT).

❺ Press either side of (REPEAT/AMS) to select the track.

continue to next page →

3 Press ⏎ (ENTER) momentarily.



4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish entering tracks, press ⏯ (PLAY MODE) for two seconds.

6 Press ⏎ (ENTER).

Notes

- "PGM" appears in the display after you press ⏎ (ENTER) following the data, or when the last item not available will be stored in memory.
- "Memory Full" appears on the display when you try to store more than 32 tracks in a program.

Playing the stored programs

Changing the disc cache in the changer will not affect program memory play.

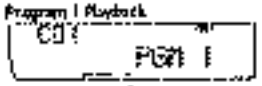
You can select:
•PGM 1 to play Program 1.
•PGM 2 to play Program 2.
•PGM 1+2 to play Programs 1 and 2.

1 Press ⏻ (POWER).

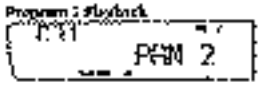
2 Press ⏯ (PLAY MODE) repeatedly until "PGM" appears.

3 Press ⏮ (←) repeatedly until the desired program appears. Program play starts.

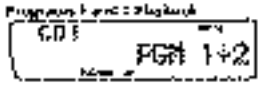
Program 1 Playback



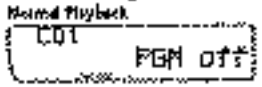
Program 2 Playback



Program 1 and 2 Playback



Normal Playback



4 Press ⏎ (ENTER).

To go back to the normal playback mode, select "PGM off" in step 3 above.

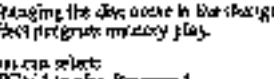
Notes

- If you use a memory backup (to keep program memory settings) and the power is interrupted, or disconnected, the program is erased.
- "NO Data" appears in the display if you try to play the program.
- If a track is erased from the program memory (see "Erasing the entire program"), the track will be skipped.
- When the last registered track is played back, the program memory is erased. To repeat the program (operation for CD Data tracks only), "Not Ready" appears.

Erasing the entire program

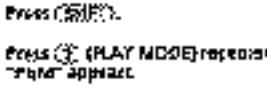
1 Press ⏎ (ENTER), then press ⏯ (PLAY MODE) for two seconds.
If you have labeled the disc, the bank edit mode appears. Press ⏯ (PLAY MODE) to display "PGM" above.

2 Press ⏭ (→) repeatedly until "DEL" appears.



To store Program 2, press ⏮ (←) repeatedly until "PGM" appears.

3 Press ⏎ (ENTER) for two seconds.



The entire program is erased.

4 When you finish erasing programs, press ⏯ (PLAY MODE) for two seconds.

5 Press ⏻ (POWER).

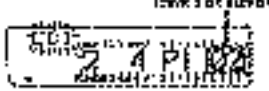
Adding tracks to the program

1 Press ⏎ (ENTER), then press ⏯ (PLAY MODE) for two seconds.
If you have labeled the disc, the bank edit mode appears. Press ⏯ (PLAY MODE) to display "PGM" above.

To select Program 2, press ⏮ (←) repeatedly until "P2" appears.

2 Press ⏭ (→) or ⏮ (←) to select the track slot number before which you want to insert a track.

Track slot number



3 Press either side of ⏭⏮ (SCAN/CUE) to select the track you want to insert.

4 Press ⏎ (ENTER) momentarily to enter the track.
The current track in that slot number and the succeeding tracks shift down.
To continue inserting tracks, repeat steps 2 through 4.

Note

Once 32 tracks have been stored, "Memory Full" appears in the display, and you cannot store tracks.

5 When you finish inserting tracks, press ⏯ (PLAY MODE) for two seconds.

6 Press ⏻ (POWER).

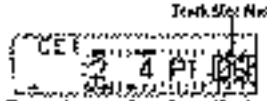
Erasing the tracks in the program

1 Press ⏎ (ENTER), then press ⏯ (PLAY MODE) for two seconds.
If you have labeled the disc, the bank edit mode appears. Press ⏯ (PLAY MODE) to display "P1" above.

To select Program 2, press ⏮ (←) repeatedly until "P2" appears.

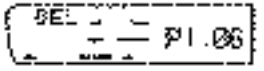
2 Press ⏭ (→) or ⏮ (←) to select the track you want to erase.

Track Slot Number



The track currently registered in slot 6 of Program 1.

3 Press ⏎ (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.



4 To continue erasing tracks, repeat steps 2 and 3.

5 When you finish erasing tracks, press ⏯ (PLAY MODE) for two seconds.

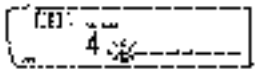
6 Press ⏻ (POWER).

Labeling a CD

– Disc Memo/Custom file
(CD changer with custom file function)

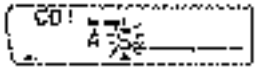
You can label each disc with a memorable name. You can enter up to 9 characters for a disc. If you label a CD, you can create a sticky memo (page 16) and select the specific areas for playback (page 16).

1 Play the CD and press ⏎ (ENTER) for two seconds.



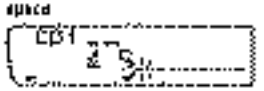
2 Enter the characters.

❶ Rotate the dial clockwise to select the desired characters.
(A → B → C → ... → Z → 0 → 1 → 2 → ... → 9 → ! → " → # → ... → = → ? → @)



If you rotate the dial counterclockwise, the characters appear in reverse order. If you want to make a blank space between characters, select "_" (underbar).

❷ Press ⏭ (→) after entering the desired character.
The flashing cursor moves to the next space.



If you press ⏮ (←), the flashing cursor moves to the left.

❸ Repeat steps ❶ and ❷ to enter the entire name.

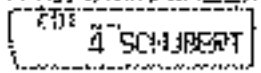
3 To return to the normal CD playback mode, press ⏎ (ENTER) for two seconds.

Tip

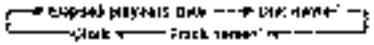
To input the next letter, press "_" (underbar) for each character.

Displaying the disc memo

During playback, press (DISPL).



For the next memo, press (DISPL) during CD playback, and then change as follows:



* When no memo is written, or if CD changer with the CD-TEXT function, the preset label for CD-TEXT discs appears, but label is changed to display.
- To change the display, see (2) (page 14).
- To change the display setting, Display settings (page 15).

The display will change depending on the disc as follows.

Type of disc	Display setting	Initial display
(A)	DISPLAY / CD-TEXT	Disc memo / CD-TEXT information
(B)	DISPLAY / CD-TEXT	Disc memo
(C)	DISPLAY / CD-TEXT	CD-TEXT information
(D)	DISPLAY / CD-TEXT	MD Disc Name

(A) CD-TEXT disc with disc name
(B) Normal CD with disc memo
(C) CD-TEXT disc without disc memo
(D) Normal CD without disc memo

* If you connect an external CD changer with the CD-TEXT function, the CD-TEXT information will appear on the display when you playback a CD-TEXT disc.

Erasing the disc memo

1 Press (DISC/TIME) repeatedly to select CD.

2 Press (DISPL) repeatedly to select the CD changer.

3 Press (ENTER) for two seconds.

4 Press (DISPL) for two seconds.
"Delete" and the disc memo appear in the display.

5 Rotate the dial to select the name you want to erase.

6 Press (ENTER) for two seconds.
The name is erased.
Repeat steps 5 and 6 if you want to erase other names.

7 Press (EXIT) for two seconds.
The unit returns to the normal CD playback mode.

Locating a disc by name

— Disc-up (CD changer with control file function or MD changer)

You can use this function for the discs that have been assigned a personalized name. For more information on disc names, refer to "Labeling a CD" (page 15).

1 Press (DISC) momentarily.
The names appear in the order currently programmed, the next disc to be played appear in the display. The name assigned to each play disc will flash.

If you add disc memo labels to a CD-TEXT disc, the display setting you make will change the which information is displayed. If the disc has only one set of information (either CD-TEXT or disc memo labels), that information will be displayed regardless of the display setting you make.

2 Press (DISC) repeatedly until you find the desired disc.

3 Press (5) (ENTER) to playback the disc.

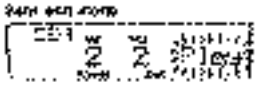
Notes
* To go back to the normal display, press (DISPL). Once the name has been assigned for the second, the display switches to the normal display mode.
* The text name may not be displayed correctly (MD player).
* If there are no discs in the magazine, "NO Disc" appears in the display.
* If the disc has not been assigned a name, the disc number appears in the display.
* CD-TEXT information that has been recorded by the unit "1" appears in the display. To find the disc, first press a number button, but before the last one has been input.
* The disc memo may not appear correctly. There are characters that cannot be displayed during MP playback.

Selecting the specific tracks for playback

— Bank/Custom file
(CD changer with custom file function)

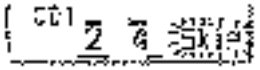
If you set this function, you can set the unit to skip tracks and play only the tracks you want.

1 While playing the disc, and press (DISC). Then press (5) (PLAY MODE) for three seconds.



Note
If you have not labeled the disc, the bank will not appear and the program will not operate. To select the normal playback mode, press (2) (Disc Number) for two seconds.

2 Press either side of (SEARCH/SKIP) to select the track number you want to skip and press (5) (ENTER).



The indication changes from "Play" to "Skip". If you want to return to "Play," press (5) (ENTER) again.

3 Repeat step 2 to set the "Play" or "Skip" mode on all the tracks.

4 Press (2) (PLAY MODE) for two seconds.

5 Press (EXIT).

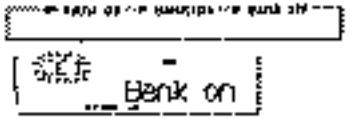
Notes
* You can set the "Skip" and "Skip" mode on up to 24 tracks.
* You cannot select "Skip" in shuffle mode.

Playing the specific tracks only

You can select:
* Track no. to play the tracks with the "Play" setting.
* Track no. (disc no.) you play the tracks with the "Skip" setting.

1 During playback, press (DISC), then press (5) (PLAY MODE) repeatedly until "Bank" appears.

2 Press (4) (+) repeatedly until the desired setting appears.



Playback starts from the track following the current one.

3 Press (EXIT).

To go back to the normal playback mode, select "Bank Off" in step 2 above.

Additional Information

Precautions

* If you car was parked in direct sunlight resulting in a considerable rise in temperature inside, allow the unit to cool off before operating it.
* If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
* If no sound comes from the speakers of a two-speaker system, set the fader control to the center position.
* If your car is equipped with a power antenna, rule that it will extend automatically while the radio function is selected.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

To maintain high quality sound

If you have fresh broken near your audio equipment, be careful not to splash juice or other soft drinks on it as this can cause damage. Sugary residue on the unit or cassette tapes may contaminate the playback heads, reduce the sound quality, or prevent sound reproduction altogether.

Clean the cleaning (2) during remove sugar from the tape heads.

Notes on cassette deck tape head

- Long use of cassette tapes contaminates the tape head, causing poor tone quality or complete sound dropout. Therefore, we recommend cleaning the tape head once a month as well with the separately available Sony Cassette Cleaning Set. If the sound does not improve after using a cleaning cassette please consult your nearest Sony dealer.
- In case of skin to rotate cassette tapes, the tape head gets contaminated much more quickly. Depend a cassette tape, after two playbacks only clean your points.

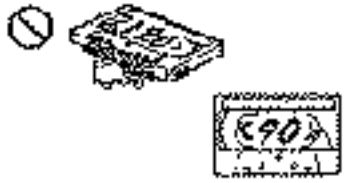
Cassette care

- Do not touch the tape surface of a cassette, as any dirt or dust will contaminate the heads.
- Keep cassettes away from equipment with built-in magnets such as speakers and amplifiers, as erasure or distortion of the recorded tape could occur.
- Do not expose cassettes to direct sunlight, extremely cold temperatures or moisture.
- Check if the tape may cause the tape to be caught in the mechanism. Tighten any loose tape, take a pencil or similar object, turn the reel and take up any slack.

- Discarded cassettes and loose labels can cause problems when inserting or ejecting tapes. Remove or replace loose labels.

Cassettes longer than 90 minutes

The use of cassettes longer than 90 minutes is not recommended except for long continuous play. The tape used for these cassettes are very thin and tend to be stretched easily. Frequent playing and stopping of these tapes may cause them to be pulled into the cassette deck mechanism.



Maintenance

Fuse replacement

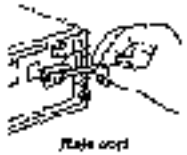
When replacing the fuse, be sure to use one that matches the amperage specified on the fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

Warning

Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

Cleaning the connectors

The unit may not function properly if the connectors between the unit and the front panel are soiled. To prevent this, open the front panel by pressing (OPEN), then detach it and clean the connectors with a cotton swab dipped in alcohol. Do not apply excessive force. Otherwise, the connectors may be damaged.



Dismounting the unit

Detach the dial knob, the front cover (with a slot screwdriver, and detach the front cover first.

Connections

Caution

- This unit is designed for negative earth 12 V DC operation only.
- Before making connections, disconnect the earth terminal of the car battery to avoid short circuits.
- Connect the yellow and red power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- Run all earth wires to a common earth point.
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual components' fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

If your car has no accessory position on the ignition key switch

— POWER SELECT switch

The illumination on the front panel is factory set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear if your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the ⊖ position, then press the reset button. The illumination is reset to stay off while the unit is not being played.

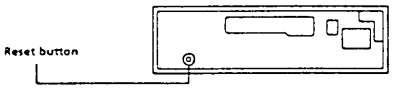
Note

The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the ⊖ position.

When you change the position of the switch, be sure to press the reset button after the connections are completed.

Reset Button

When the installation and connections are complete, be sure to press the reset button with a ball-point pen etc.

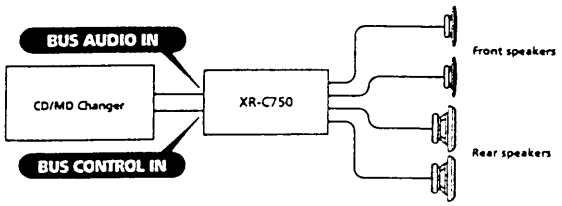


Connection Diagram

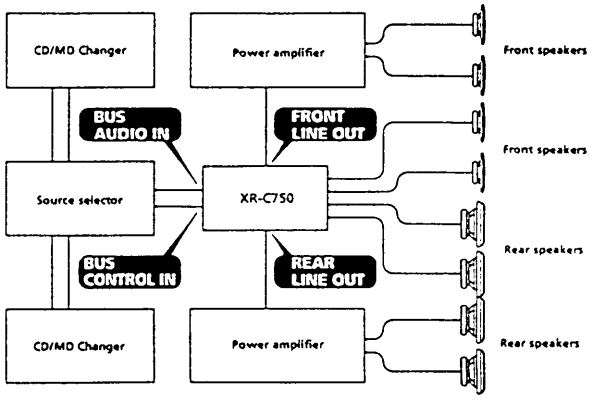
If you connect an optional power amplifier and do not use the built-in amplifier, the beep-tone will be disabled.

For connecting two or more changers, the source selector XA-C30 (optional) and the BUS cable RC-61 (1 m) or RC-62 (2 m) (optional) are necessary.

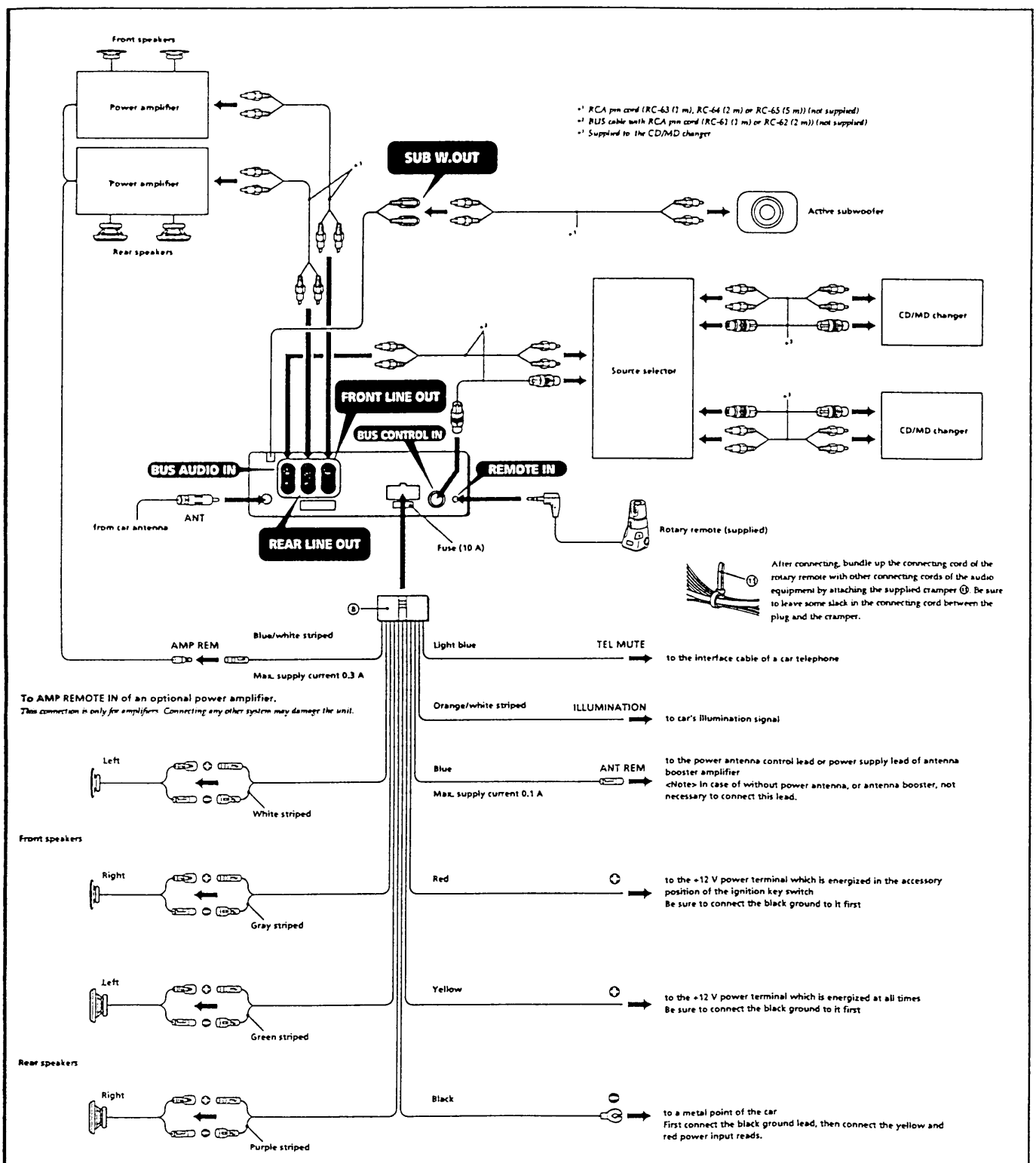
Example 1



Example 2



Connections of Example


Front speakers
Power amplifier
Power amplifier
Rear speakers
*1 RCA pin cord (RC-63 (1 m), RC-64 (2 m) or RC-65 (5 m)) (not supplied)
*2 BUS cable with RCA pin cord (RC-61 (1 m) or RC-62 (2 m)) (not supplied)
*3 Supplied to the CD/MD changer
SUB W.OUT
Active subwoofer
Source selector
CD/MD changer
CD/MD changer
FRONT LINE OUT
BUS CONTROL IN
BUS AUDIO IN
REMOTE IN
ANT
from car antenna
REAR LINE OUT
Fuse (10 A)
Rotary remote (supplied)
After connecting, bundle up the connecting cord of the rotary remote with other connecting cords of the audio equipment by attaching the supplied cramper ⑪. Be sure to leave some slack in the connecting cord between the plug and the cramper.
⑧
AMP REM
Blue/white striped
Max. supply current 0.3 A
Light blue
TEL MUTE
to the interface cable of a car telephone
To AMP REMOTE IN of an optional power amplifier.
This connection is only for amplifiers. Connecting any other system may damage the unit.
Orange/white striped
ILLUMINATION
to car's illumination signal
Left
White striped
Blue
ANT REM
Max. supply current 0.1 A
to the power antenna control lead or power supply lead of antenna booster amplifier
<Note> In case of without power antenna, or antenna booster, not necessary to connect this lead.
Front speakers
Right
Gray striped
Red
to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Be sure to connect the black ground to it first
Left
Green striped
Yellow
to the +12 V power terminal which is energized at all times
Be sure to connect the black ground to it first
Rear speakers
Right
Purple striped
Black
to a metal point of the car
First connect the black ground lead, then connect the yellow and red power input leads.

Notes on the control leads

- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) Function.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

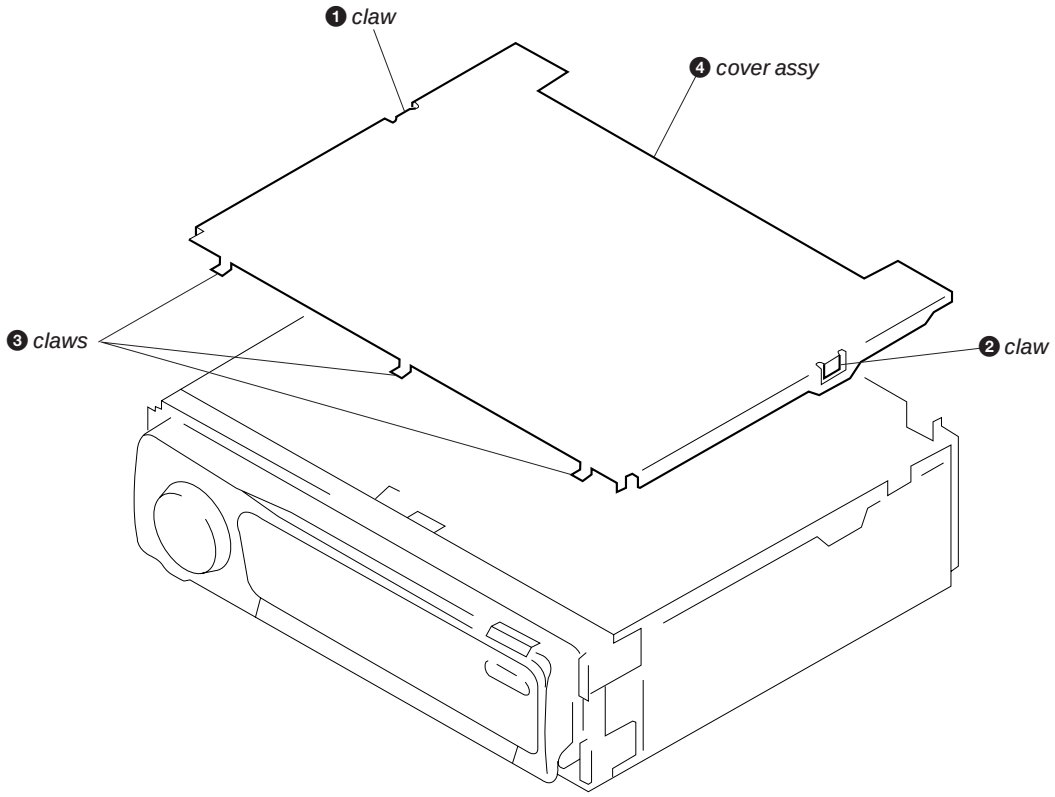
Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

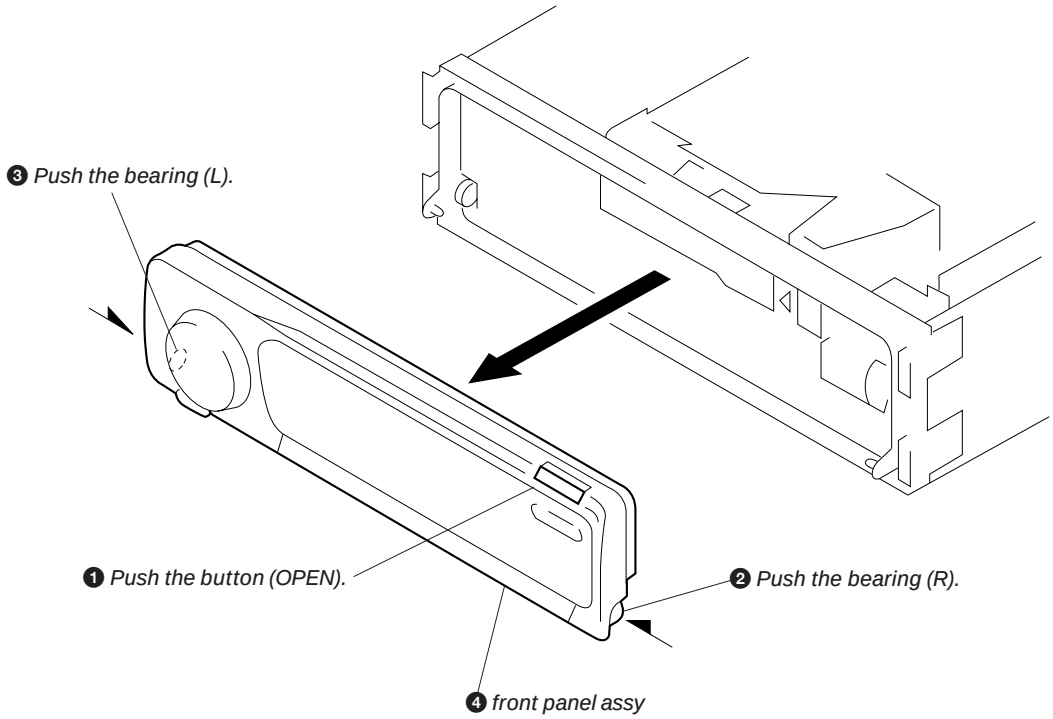
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

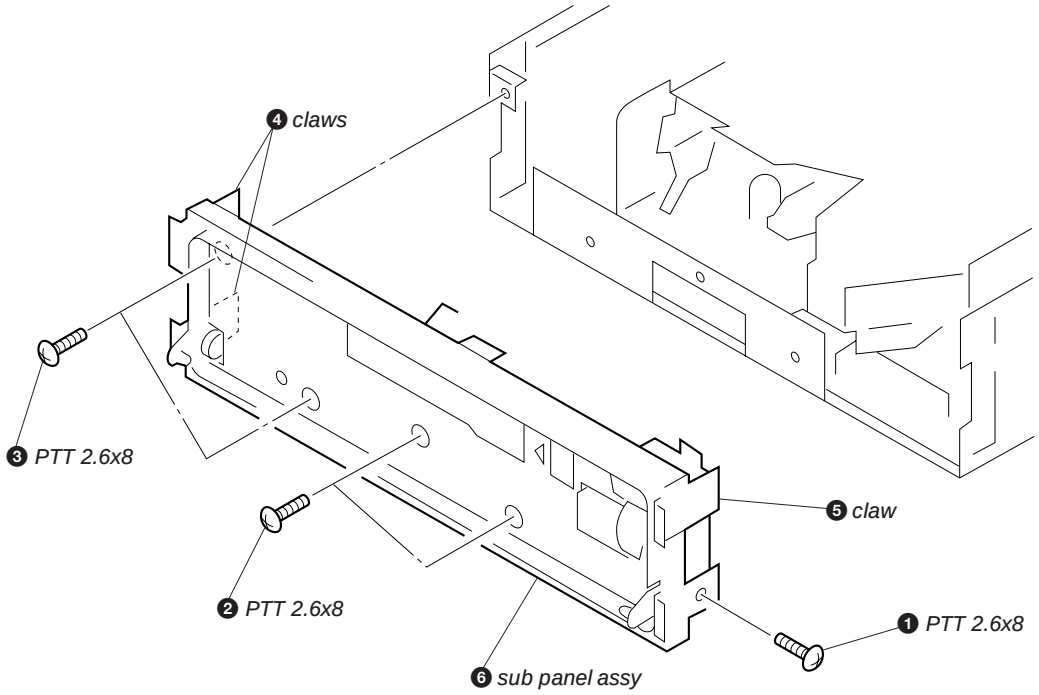
2-1. COVER ASSY



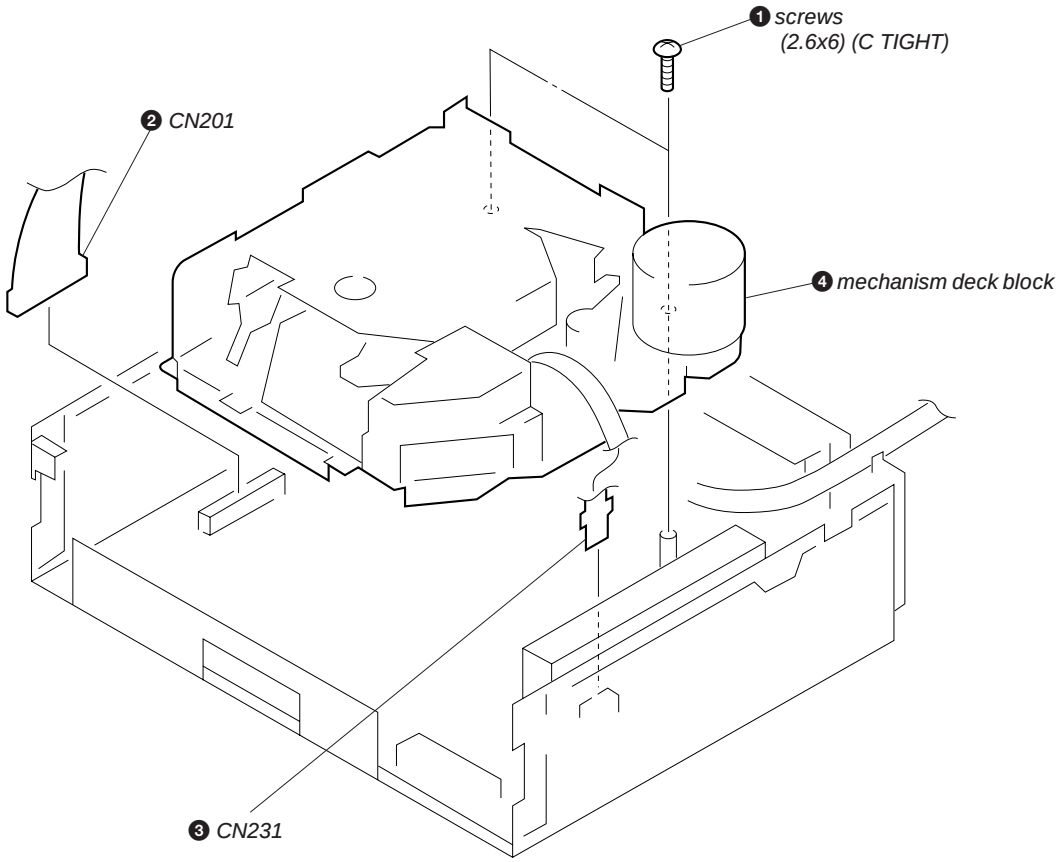
2-2. FRONT PANEL ASSY



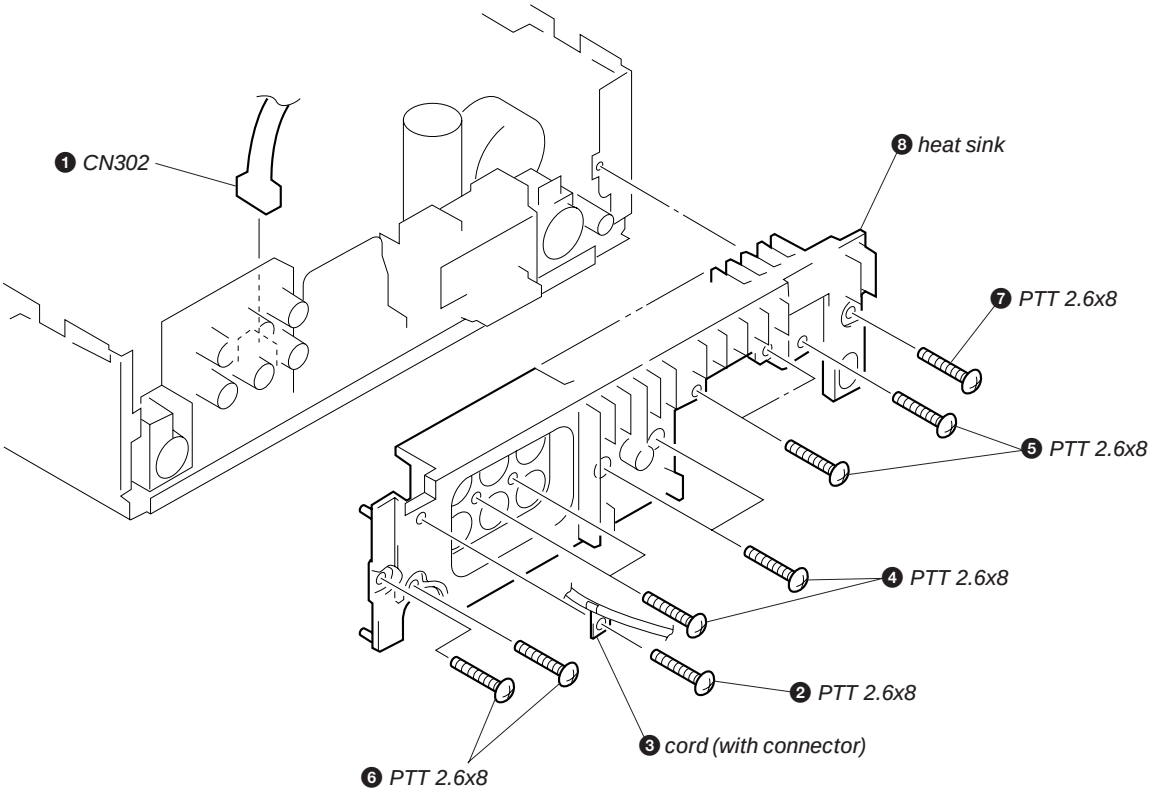
2-3. SUB PANEL ASSY



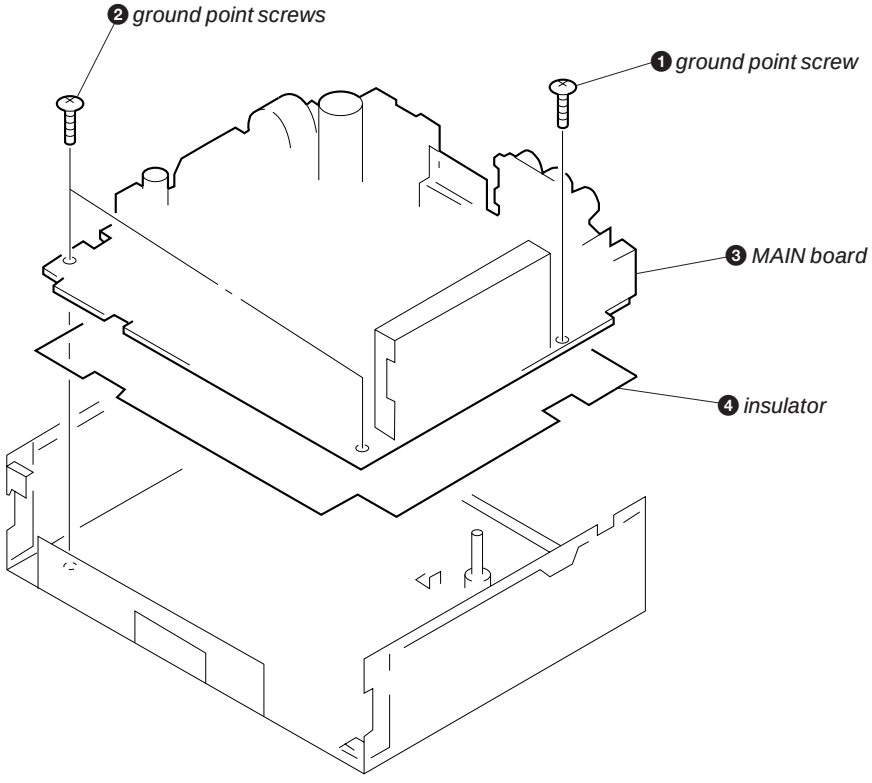
2-4. MECHANISM DECK BLOCK



2-5. HEAT SINK



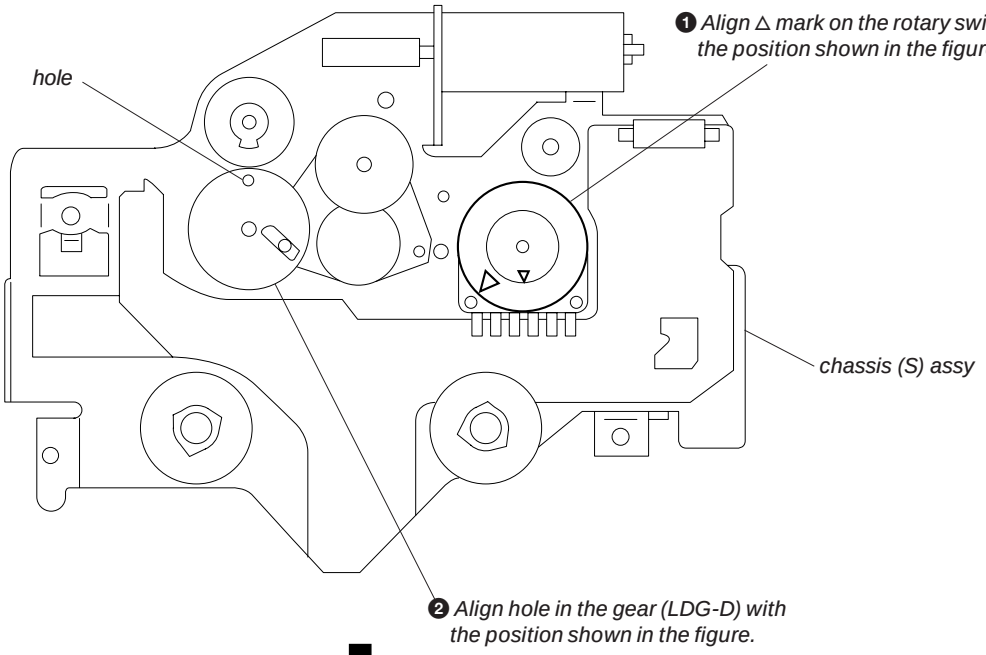
2-6. MAIN BOARD



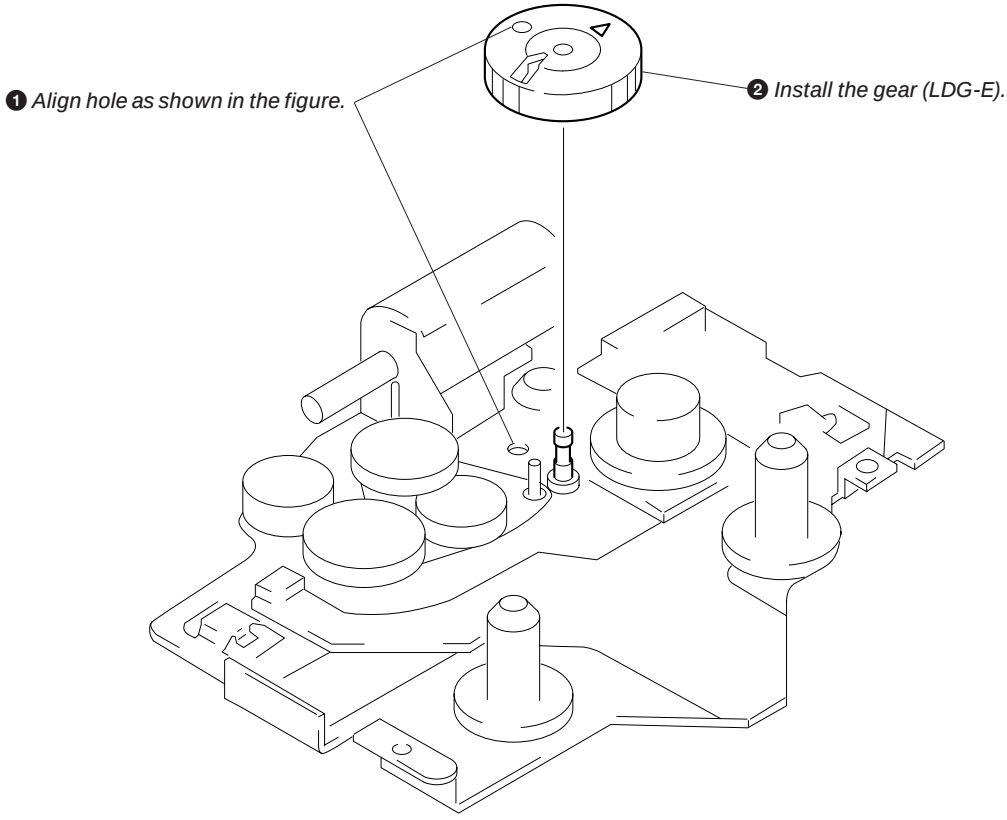
SECTION 3
ASSEMBLY OF MECHANISM DECK

Note : Follow the assembly procedure in the numerical order given.

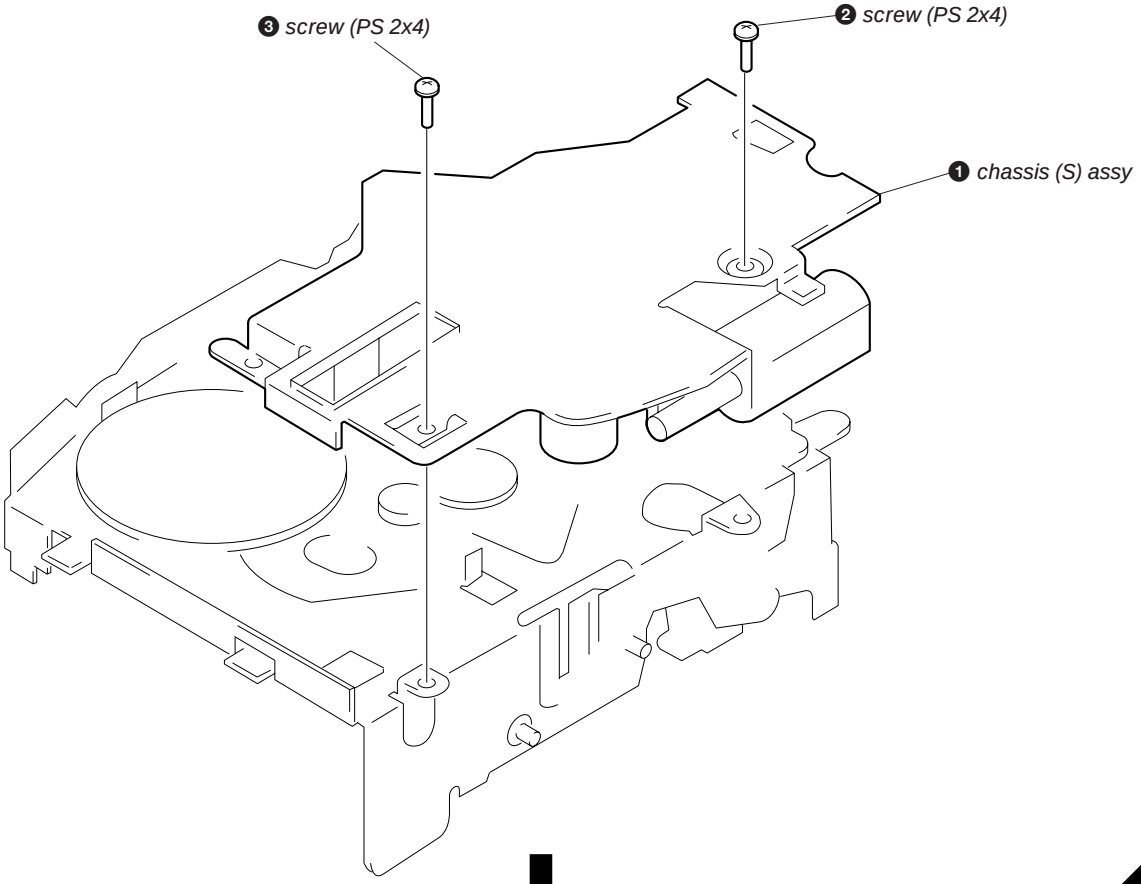
ALIGNMENT OF ROTARY SWITCH


❶ Align △ mark on the rotary switch the position shown in the figure.
hole
chassis (S) assy
❷ Align hole in the gear (LDG-D) with the position shown in the figure.

GEAR (LDG-E)

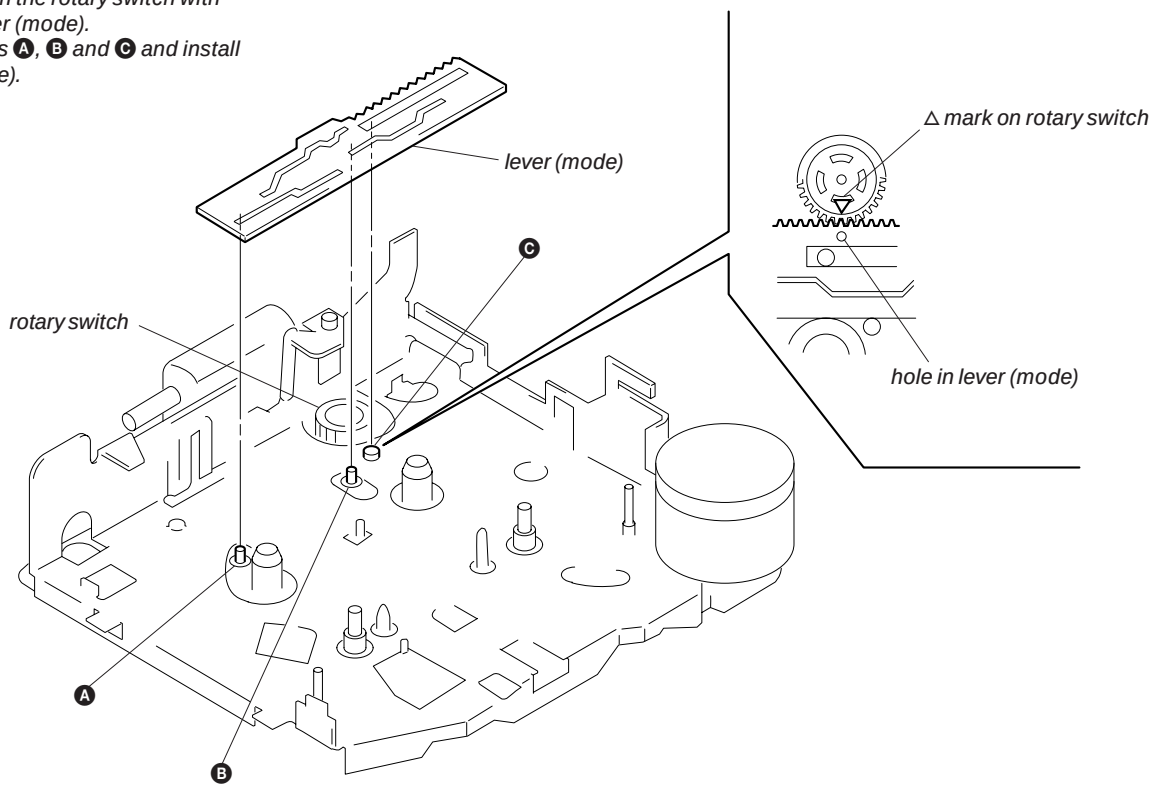


CHASSIS (S) ASSY

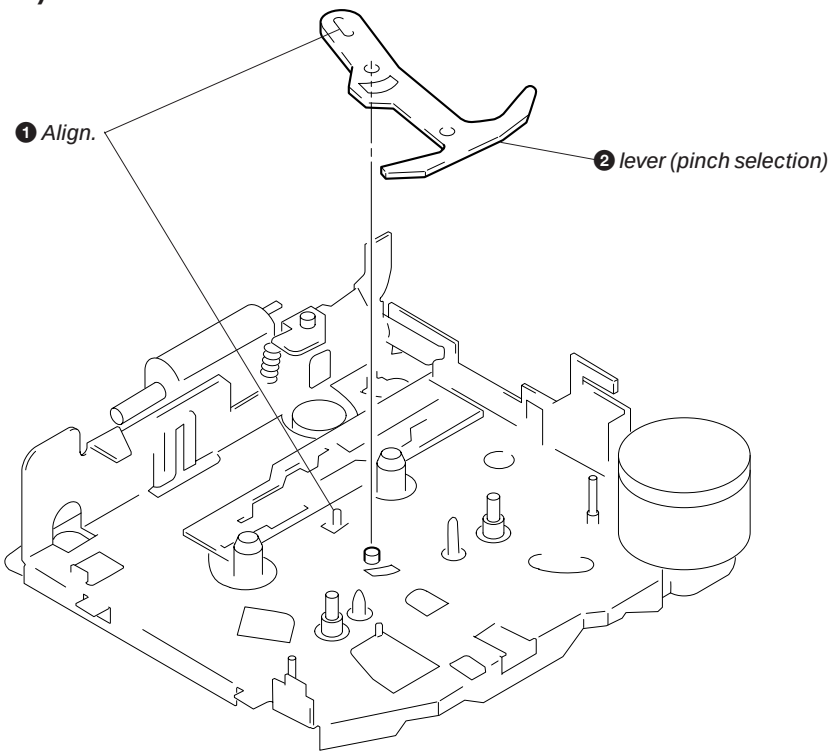


LEVER (MODE)

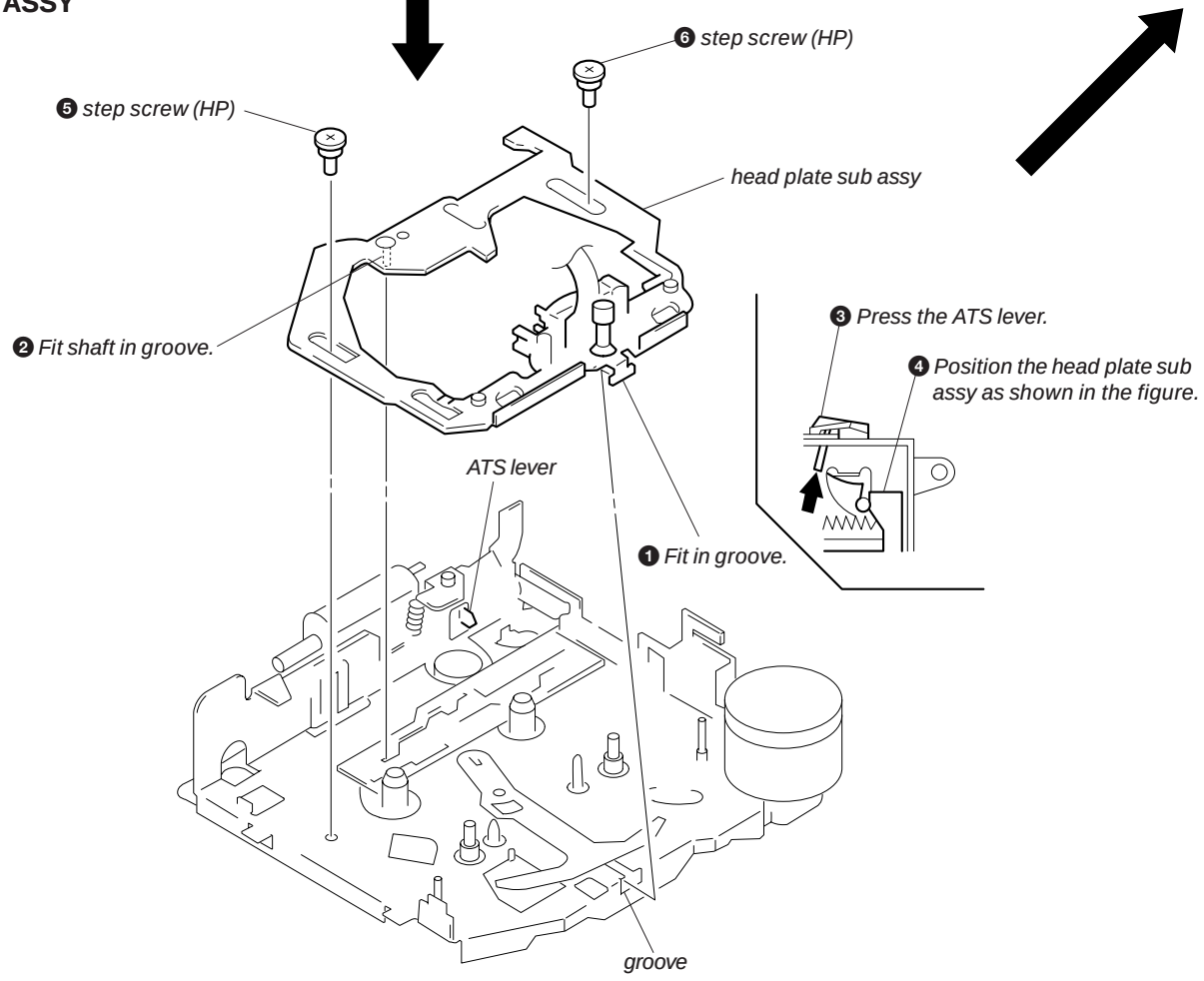
1. Align △ mark on the rotary switch with hole in the lever (mode).
2. Fit on positions Ⓐ, Ⓑ and Ⓒ and install the lever (mode).



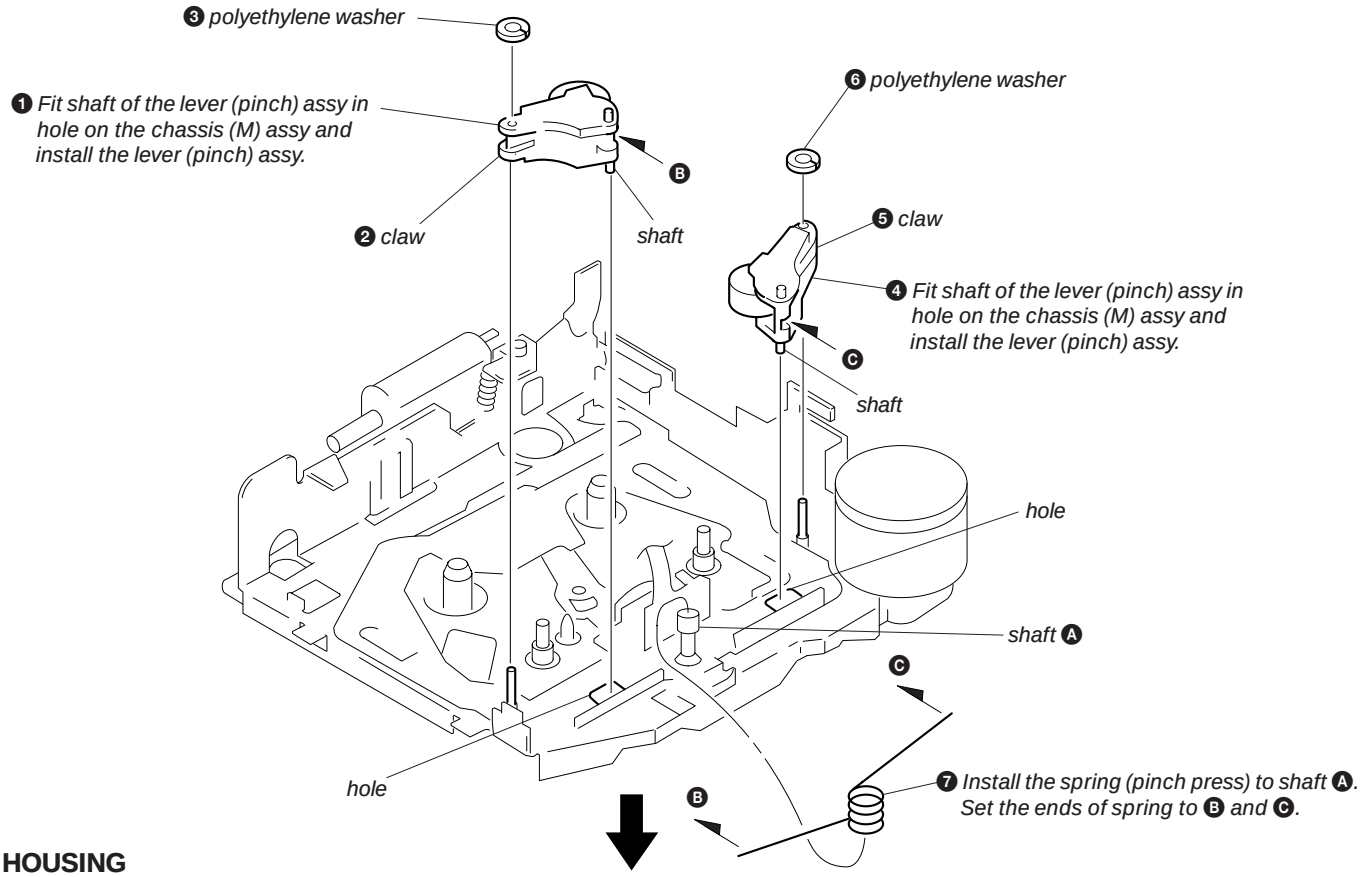
LEVER (PINCH SELECTION)



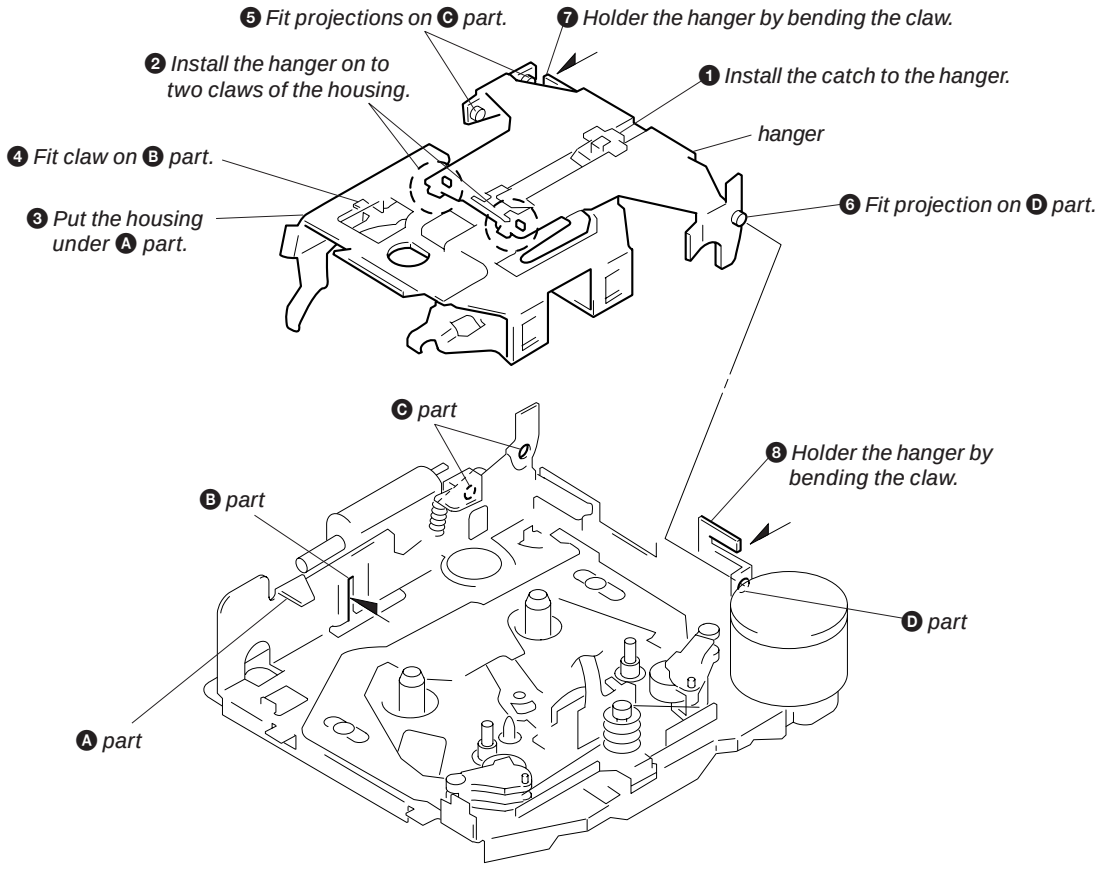
HEAD PLATE ASSY


❻ step screw (HP)
❺ step screw (HP)
head plate sub assy
❷ Fit shaft in groove.
❸ Press the ATS lever.
❹ Position the head plate sub assy as shown in the figure.
ATS lever
❶ Fit in groove.
groove

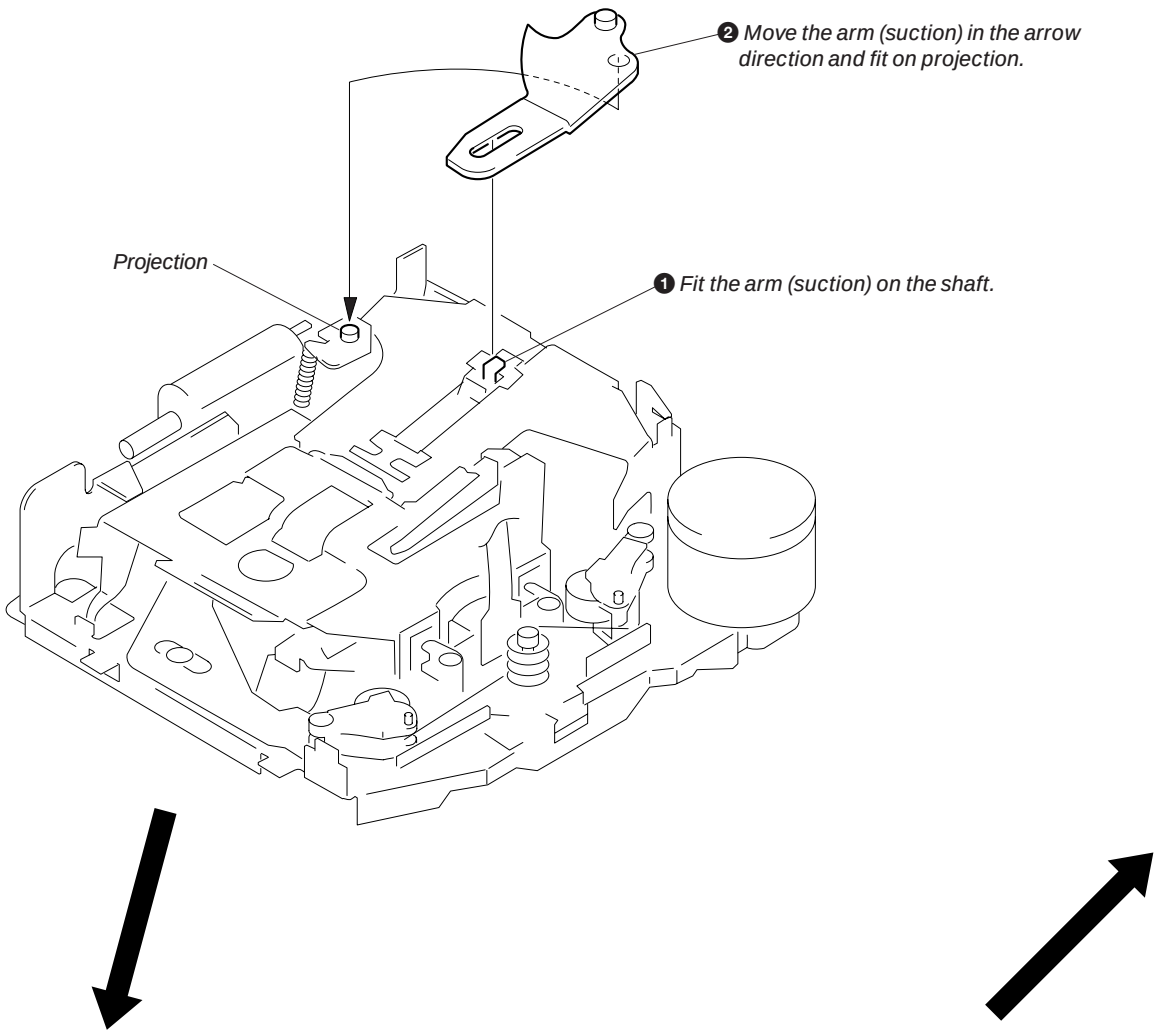
LEVER (PINCH) ASSY


❸ polyethylene washer
❶ Fit shaft of the lever (pinch) assy in hole on the chassis (M) assy and install the lever (pinch) assy.
❻ polyethylene washer
Ⓑ
❷ claw
shaft
❺ claw
❹ Fit shaft of the lever (pinch) assy in hole on the chassis (M) assy and install the lever (pinch) assy.
Ⓒ
shaft
hole
shaft Ⓐ
Ⓒ
hole
Ⓑ
❼ Install the spring (pinch press) to shaft Ⓐ. Set the ends of spring to Ⓑ and Ⓒ.

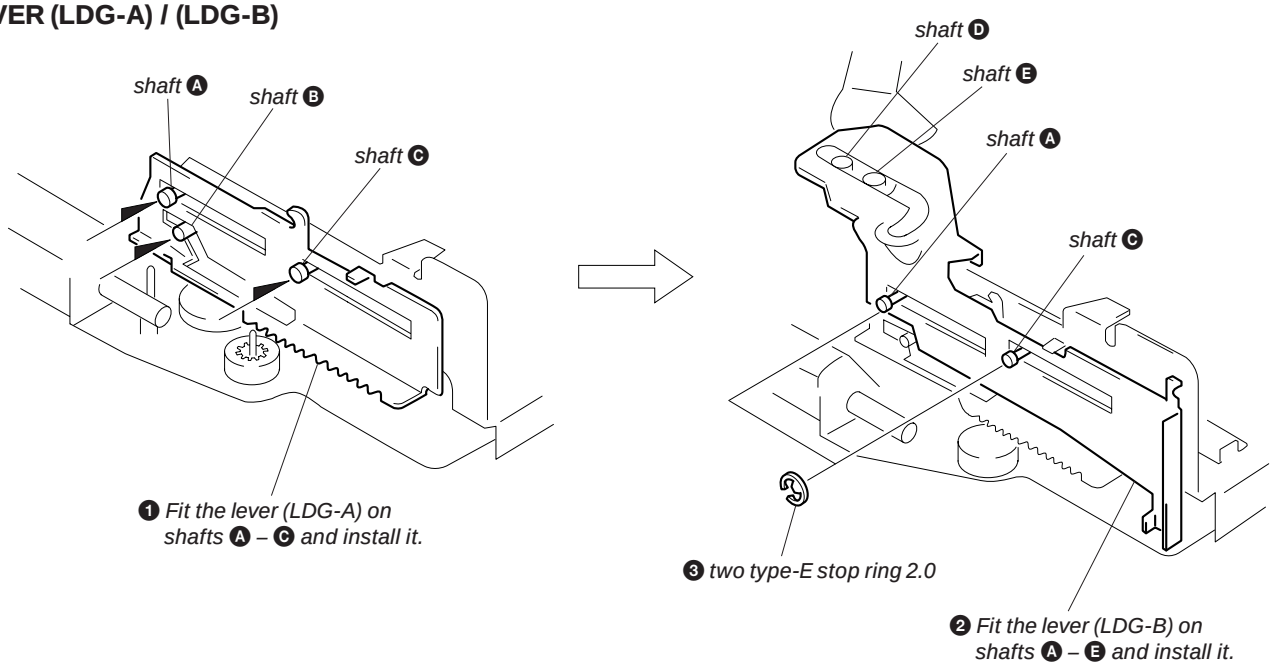
HOUSING


❺ Fit projections on Ⓒ part.
❼ Holder the hanger by bending the claw.
❷ Install the hanger on to two claws of the housing.
❶ Install the catch to the hanger.
hanger
❹ Fit claw on Ⓑ part.
❸ Put the housing under Ⓐ part.
❻ Fit projection on Ⓓ part.
Ⓒ part
❽ Holder the hanger by bending the claw.
Ⓑ part
Ⓓ part
Ⓐ part

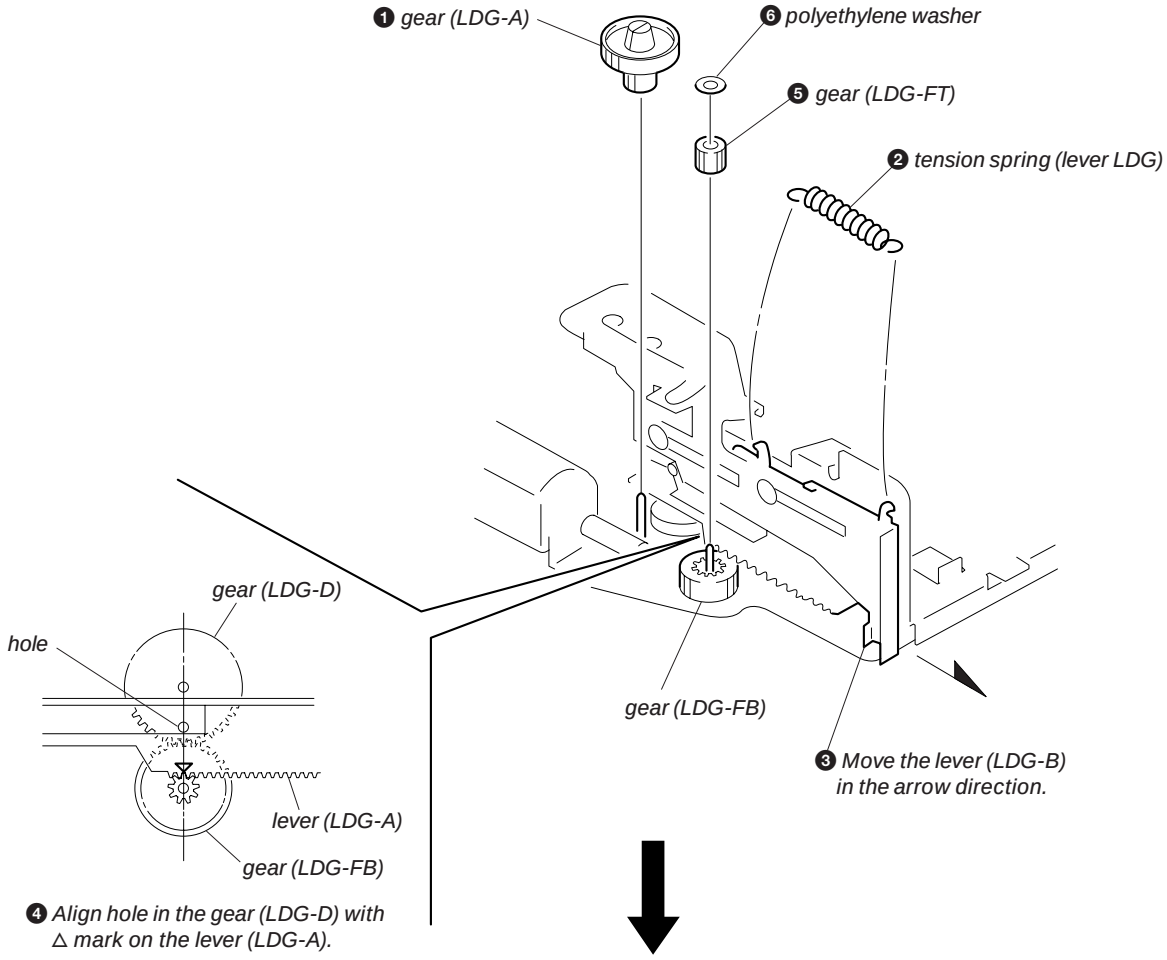
ARM (SUCTION)



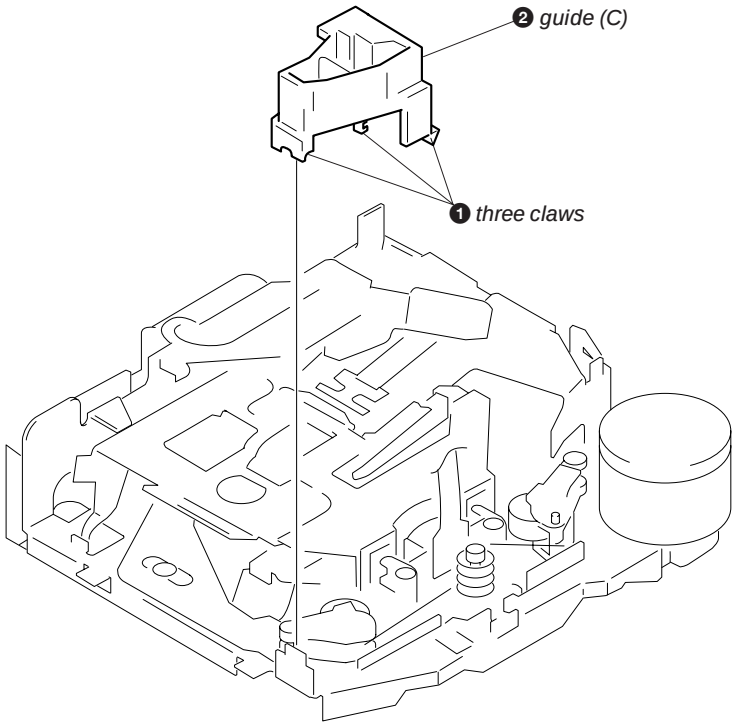
LEVER (LDG-A) / (LDG-B)


shaft Ⓐ
shaft Ⓑ
shaft Ⓒ
❶ Fit the lever (LDG-A) on shafts Ⓐ – Ⓒ and install it.
shaft Ⓓ
shaft Ⓔ
shaft Ⓐ
shaft Ⓒ
❸ two type-E stop ring 2.0
❷ Fit the lever (LDG-B) on shafts Ⓐ – Ⓔ and install it.

GEAR (LDG-FT)


❶ gear (LDG-A)
❻ polyethylene washer
❺ gear (LDG-FT)
❷ tension spring (lever LDG)
gear (LDG-D)
hole
lever (LDG-A)
gear (LDG-FB)
gear (LDG-FB)
❸ Move the lever (LDG-B) in the arrow direction.
❹ Align hole in the gear (LDG-D) with △ mark on the lever (LDG-A).

GUIDE (C)



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment :
   PB head Pinch roller
   Idler Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	35 – 65 g • cm (0.49 – 0.90 oz • inch)
FWD Back Tension		0.5 – 5.0 g • cm (0.01 – 0.07 oz • inch)
REV	CQ-102RC	35 – 65 g • cm (0.49 – 0.90 oz • inch)
REV Back Tension		0.5 – 5.0 g • cm (0.01 – 0.07 oz • inch)
FF, REW	CQ-201B	60 – 200 g • cm (0.83 – 2.78 oz • inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 60 g (more than 2.12 oz)
REV	CQ-403R	

SECTION 5
ELECTRICAL ADJUSTMENTS

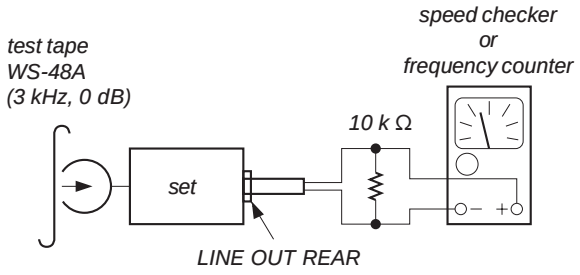
See the adjustment location from on page 25 for the adjustment.

DECK SECTION **0 dB = 0.775 V**

Tape Speed Adjustment

Procedure :

1. Put the set into the FWD PB mode.



Specification : Constant speed

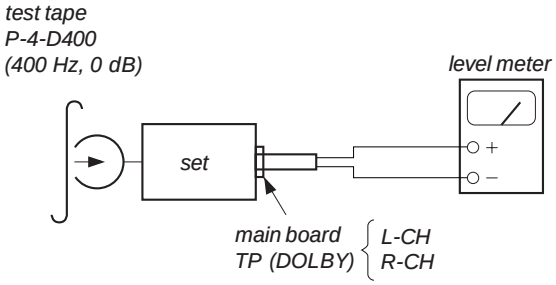
Speed checker	Frequency counter
– 1.5 to + 2.5 %	2,955 to 3,075 Hz

Adjustment Location : See page 25.

DOLBY Level Adjustment

setting :

SHIFT button : ON (light up SET UP and PLAY MODE)
Preset 3 (PLAY MODE) button : NR off
SOUND (BAS) button : Center
SOUND (TRE) button : Center
SOUND (BAL) button : Center
SOUND (FAD) button : Center
SOUND (VOL) button : Maximum



Procedure :

1. Put the set into the FWD PB mode.
2. Adjust RV251 (L-CH) and RV261 (R-CH) so that level meter reading is – 6 ± 0.5 dB (0.37 to 0.41 V).

Adjustment Location : See page 25.

TUNER SECTION **0 dB = 1 µV**

Cautions during repair
When the tuner unit is defective, replace it by a new one because its internal block is difficult to repair.

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM (MW) Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

<Set the Test Mode>
1. Set the "OFF" mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for more than two seconds.
5. Then the display indicates all lights, the test mode is set.

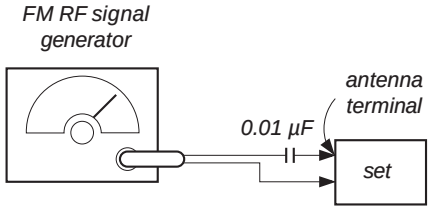
<Release the Test Mode>
1. Push the [OFF] button.

Note on Adjustment

The adjustments of tuner section, should be performed according to the following sequence.
1. FM Auto Scan/Stop Level Adjustment
2. FM Stereo Separation Adjustment
3. FM Noise Focus Adjustment (E model)
4. AM (MW) Auto Scan/Stop Level Adjustment

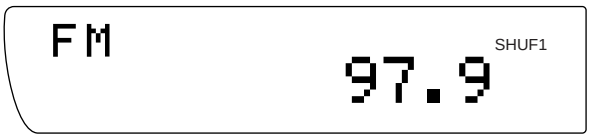
FM Auto Scan/Stop Level Adjustment

Setting :
SOURCE button : FM
FREQUENCY SELECT switch (E model) : FM 200k

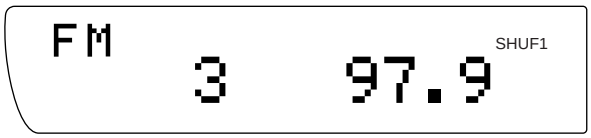


Carrier frequency : 97.9 MHz
Output level : 22 dB (12.6 µV)
Mode : mono
Modulation : 1 kHz, 22.5 kHz deviation (30%)

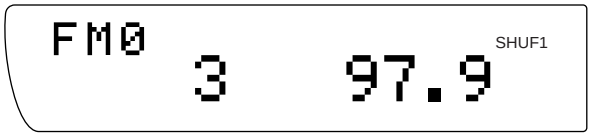
Procedure :
1. Set to the test mode.
2. Push the [SOURCE] button and set to FM.
Display



3. Push the preset [3] button.
Display



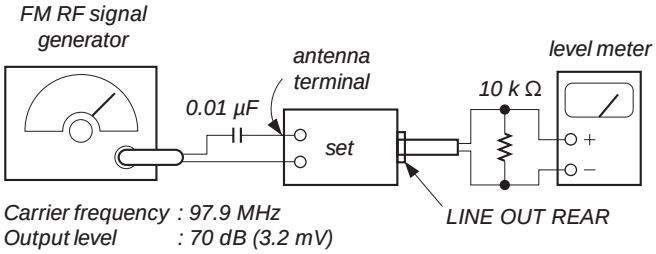
4. Adjust with the volume RV2 on TU11 so that the "FM" indication turns to "FM0" indication on the display window.
But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.
Display



Adjustment Location : See page 25.

FM Stereo Separation Adjustment

Setting :
SOURCE button : FM
FREQUENCY SELECT switch (E model) : FM 200k



Carrier frequency : 97.9 MHz
Output level : 70 dB (3.2 mV)
Mode : stereo
Modulation : main : 1 kHz, 33.75 kHz deviation (45%)
sub : 1 kHz, 33.75 kHz deviation (45%)
19 kHz pilot : 7.5 kHz deviation (10%)

Procedure :

FM stereo signal generator output channel	Level meter connection	Level meter reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 on TU11 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 on TU11 for minimum reading.

L-CH stereo separation : Ⓐ – Ⓑ
R-CH stereo separation : Ⓒ – Ⓓ
The separations of both channels should be equal.

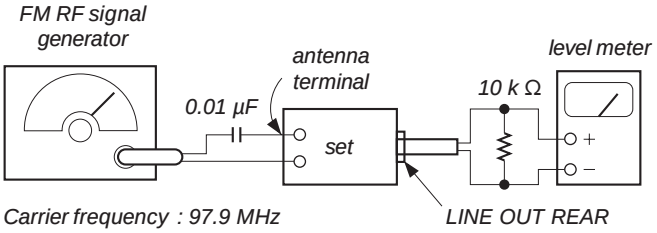
Specification : Separation more than 28 dB

Adjustment Location : See page 25.

FM Noise Focus Adjustment (E model)

Setting :

SOURCE button : FM
FREQUENCY SELECT switch : FM 200k



Carrier frequency : 97.9 MHz
Output level : 60 dB (1 mV)
Mode : mono
Modulation : 1 kHz, 75 kHz deviation (100%)

Procedure :

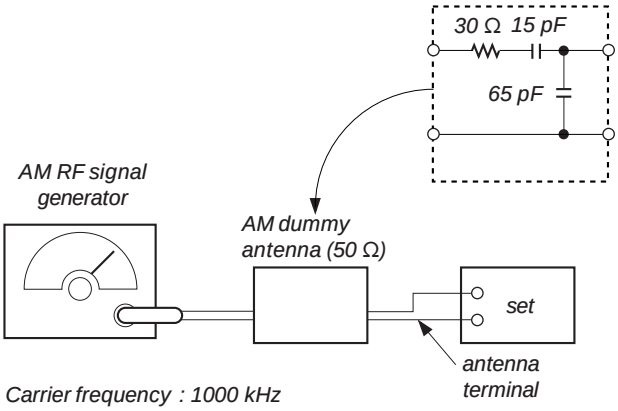
1. Tune the 97.9 MHz.
2. The then output level is supposing that 0 dB.
3. Adjust with the volume RV3 on TU11 so that the output level is – 32 ± 2 dB then signal generator input set to – 20 dB.

Adjustment Location : See page 25.

AM (MW) Auto Scan/Stop Level Adjustment

Setting :

SOURCE → MODE button : AM (US model)
: MW (E model)
FREQUENCY SELECT switch (E model) : MW 10k

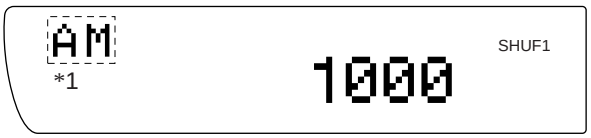


Carrier frequency : 1000 kHz
30% amplitude modulation by 1 kHz signal
output level : 33 dB (44.7 µV)

Procedure :

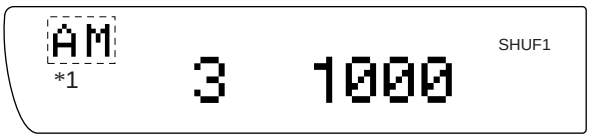
1. Set to the test mode. (See page 23.)
2. Push the SOURCE button.
3. Push the MODE button and set to AM (US model) or MW (E model).

Display



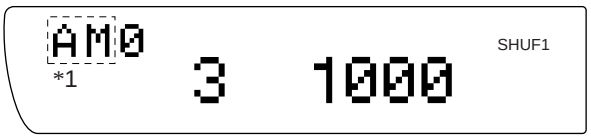
4. Push the preset 3 button.

Display



5. Adjust with the volume RV1 on TU11 so that the “AM” (US model) or “MW” (E model) indication turns to “AM0” (US model) or “MW0” (E model) indication on the display window. But, in case of already indicated “AM0” (US model) or “MW0” (E model), turn the RV1 so that put out light “0” indication and adjustment.

Display

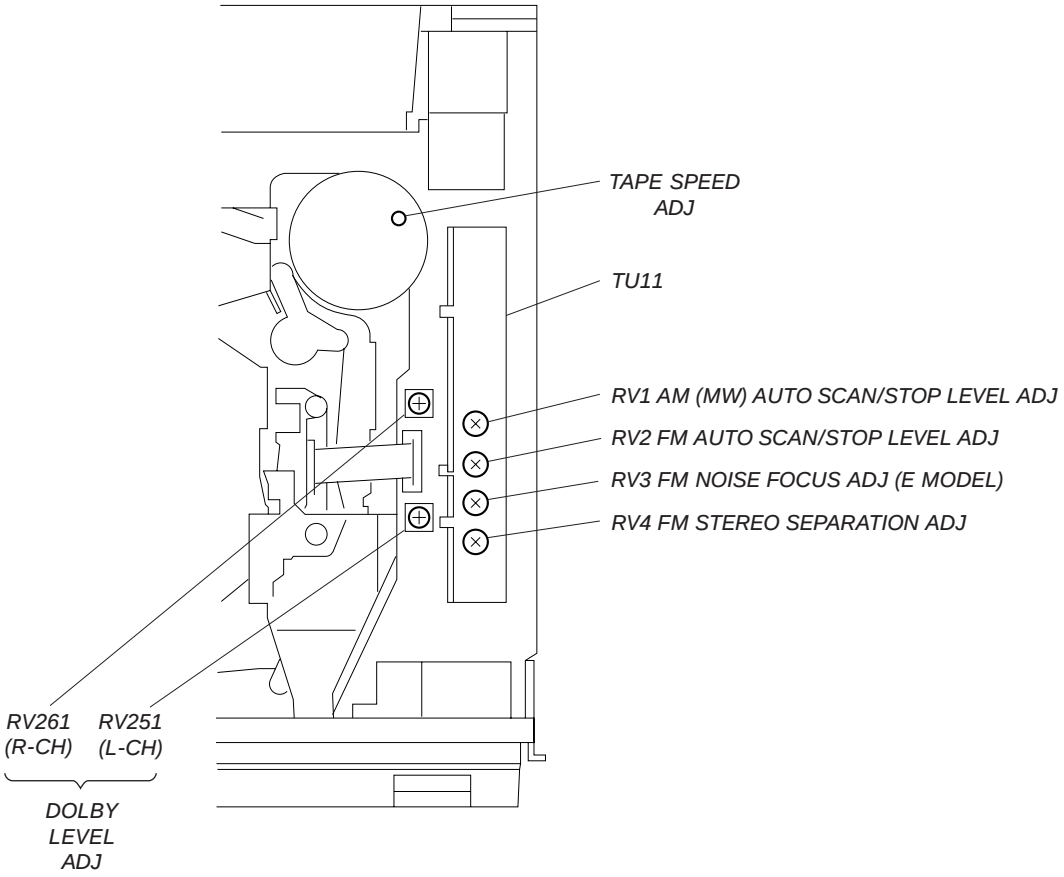


*1 : E model has the “MW” displayed.

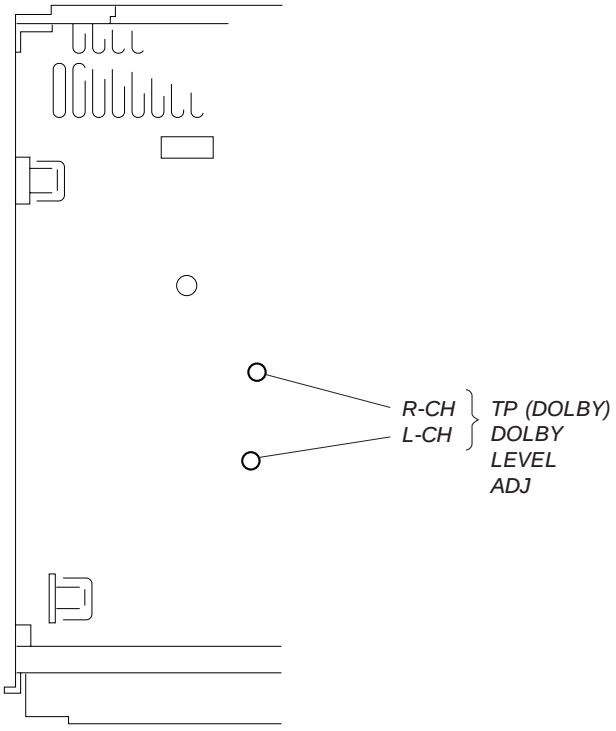
Adjustment Location : See page 25.

Adjustment Location : tuner unit (TU11)

–set upper view–


TAPE SPEED ADJ
TU11
RV1 AM (MW) AUTO SCAN/STOP LEVEL ADJ
RV2 FM AUTO SCAN/STOP LEVEL ADJ
RV3 FM NOISE FOCUS ADJ (E MODEL)
RV4 FM STEREO SEPARATION ADJ
RV261 (R-CH)
RV251 (L-CH)
DOLBY LEVEL ADJ

–set bottom view–



SECTION 6
DIAGRAMS

6-1. IC PIN DESCRIPTIONS

• IC101 µPD78013GC-761-AB8 (TUNER SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	TUNON	O	TUNER power control output
2	FM ON	O	FM power control output
3 – 8	NCO	—	Not used.
9	VSS	—	GND
10 – 23	NCO	—	Not used.
24	VSS	—	GND
25 – 32	NCO	—	Not used.
33	TUNMUTE	O	Tuner mute output
34	RAMBU	I	RAM reset detection input
35	$\overline{\text{RESET}}$	—	Microcomputer reset
36	NCO	—	Not used.
37	BU IN	I	Back-up power detection input
38	NCO	—	Not used.
39	$\overline{\text{BUSON}}$	I	BUS ON control input
40	VDD	—	Microcomputer power supply
41	OSCOUT	O	System clock connection output (8 MHz)
42	OSCIN	I	System clock connection input (8 MHz)
43	GND	—	GND
44	XT OUT	O	Sub clock connection output (Connect to GND.)
45	XT IN	I	Sub clock connection input (Connect to GND.)
46	AVSS	—	GND for A/D input.
47	VSM	I	FM/AM common signal meter A/D conversion input
48, 49	DSTSEL1, 0	I	Destination initial setting A/D conversion input
50	SD IN	I	Station detector detection input
51	$\overline{\text{ST MONO}}$	I/O	Used inconjunction with STEREO input/MONO output. (FM mode)
52 – 54	NIL	I	Connect to GND.
55	AVDD	—	Power supply for A/D input.
56	AVREF	—	Reference voltage for A/D input.
57	PLLSI	I	PLL serial data input
58	PLLSO	O	PLL serial data output
59	PLLCKO	O	PLL serial clock output
60	PLLCE	O	PLL serial chip enable output
61	$\overline{\text{LINKOFF}}$	O	LINK OFF output
62	UNISI	I	Serial data input
63	UNISO	O	Serial data output
64	UNICKI	I	Serial clock input

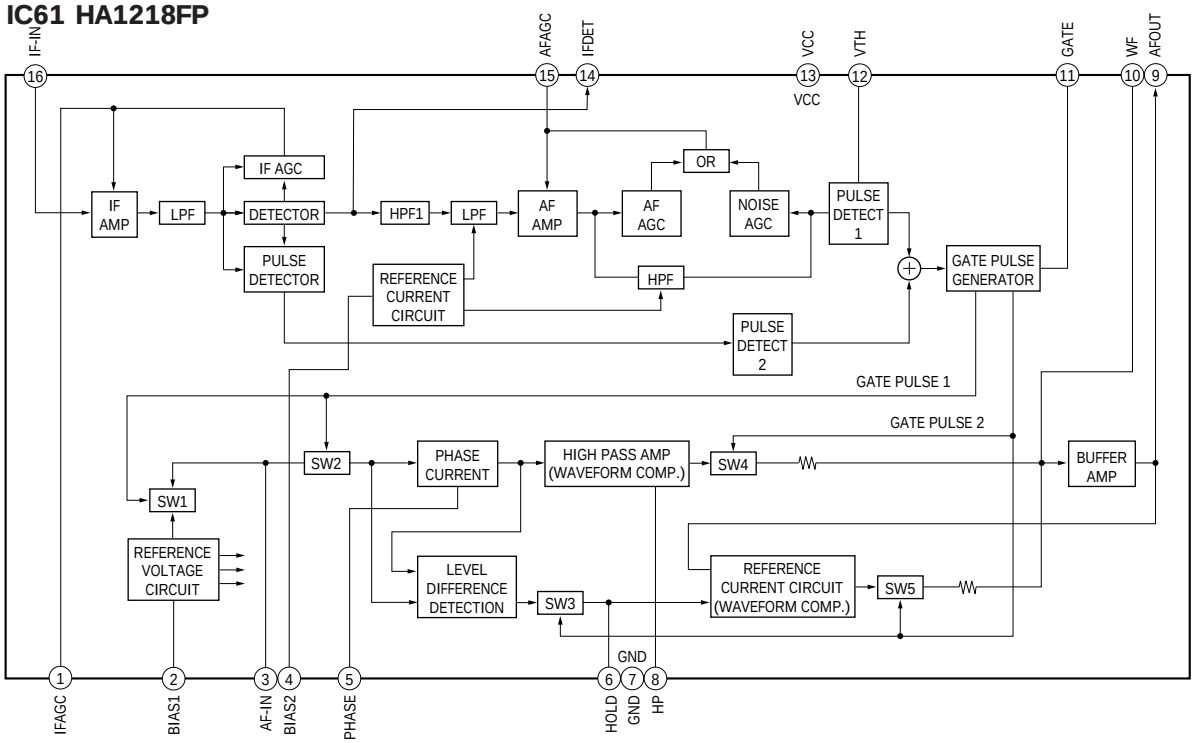
• IC501 µPD78058GC-463-3B9 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	RC IN0	I	Rotary commander A/D conversion input 0
2	$\overline{\text{ILL.IN}}$	I	Illumination line detection input
3	NIL	I	Connect to GND.
4	AVSS	—	GND for A/D conversion.
5	$\overline{\text{LCDANG}}$	O	Output for LCD view angle adjustment.
6	NIL	I	Connect to GND.
7	AVREF	—	Reference voltage for D/A conversion.
8	RE IN0	I	Rotary encoder input 0
9	RE IN1	I	Rotary encoder input 1
10	SUB-CONT1	O	SUB.W OUT control output
11	SUB-CONT2	O	SUB.W OUT control output
12	LCDSO	O	LCD serial data output
13	LCDCKO	O	LCD serial clock output
14	LCDCE	O	LCD serial chip enable output
15	$\overline{\text{LCDINH}}$	O	LCD blank display control output
16	UNISI	I	Serial data input
17	UNISO	O	Serial data output
18	UNICKI	I	Serial clock input
19	UNICKO	O	Serial clock output
20	$\overline{\text{BUSON}}$	O	BUS ON control output
21	$\overline{\text{SYSRST}}$	O	System reset control output
22	AMPON	O	Power amplifier power control output
23	—	—	Not used.
24	NCO	—	Not used.
25	PW ON	O	System power control output
26	ILLON	O	Illumination power control output
27	COLOR	I/O	Illumination color select control input/output
28	$\overline{\text{AMSON}}$	O	TAPE AMS control output
29	REL	I	Rotation detection input of reel table.
30	MTLIN	I	Auto METAL detection input
31, 32	POS3, 2	I	Position signal detection input
33	GND	—	GND of microcomputer.
34, 35	POS0, 1	I	Position signal detection input
36	LM LOD	O	Loading motor control output (Loading direction)
37	LM EJ	O	Loading motor control output (Eject direction)
38	N $\overline{\text{R}}$ OUT	O	Forward/Reverse detection output
39	MTLON	O	METAL control output
40	CM ON	O	Capstan motor control output
41	TAPON	O	TAPE power control output
42	PW SEL	I	Power select initial setting
43	RC IN1	I	Rotary commander input 1
44	$\overline{\text{TEST}}$	I	TEST mode setting input
45	$\overline{\text{EQSEL}}$	I	Equalizer select input
46	BEEP	O	Buzzer control output
47	MUTE	O	System mute control output
48	VOLCE	O	Electric volume serial chip enable output

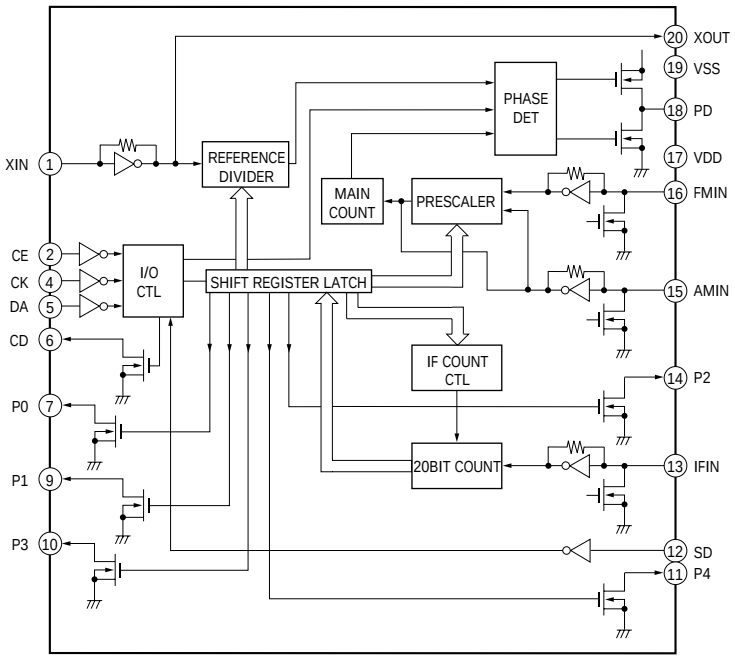
Pin No.	Pin Name	I/O	Pin Description
49	SUBCE	O	Sub volume serial chip enable output
50	VOLCKO	O	Electric volume serial clock output
51	SUBCKO	O	Sub volume serial clock output
52	VOLSO	O	Electric volume serial data output
53	TAPMUT	O	Tape mute control output
54	DOLON	I/O	DOLBY control input/output
55	DOLBC	I/O	DOLBY B/C select control input/output
56	$\overline{\text{AMSIN}}$	I	Music with/without detection input in AMS.
57	DIMMER	I/O	Dimmer control input/output
58	$\overline{\text{AD ON}}$	O	Power control output for A/D conversion.
59	$\overline{\text{TIRIND}}$	O	TIR indicator control output (Not used.)
60	$\overline{\text{RESET}}$	I	Reset input
61	SIRCS	I	Remote commander input
62	BU IN	I	Back-up power detection input
63	$\overline{\text{DOORSW}}$	I	Door open/close switch
64	$\overline{\text{ACCIN}}$	I	Accessory power detection input
65	$\overline{\text{NOSESW}}$	I	Detachable panel detection
66	$\overline{\text{TELMUT}}$	I	Telephone mute detection input
67	KEYACK	I	Key input acknowledge
68	VDD	—	Power supply for microcomputer.
69	X OUT	O	Main ceramic oscillator output pin (5 MHz)
70	X IN	I	Main ceramic oscillator input pin (5 MHz)
71	GND	—	GND for microcomputer.
72	XT OUT	O	Sub crystal oscillator output pin (32.768 kHz)
73	XT IN	I	Sub crystal oscillator input pin (32.768 kHz)
74	AVDD	—	Power supply for A/D conversion.
75	AVREF	—	Reference power supply for A/D conversion.
76, 77	KEYIN0, 1	I	Key input 0, 1
78, 79	KEYSEL0, 1	I	Key function select setting input
80	NIL	I	Connect to GND.

• **IC Block Diagrams**

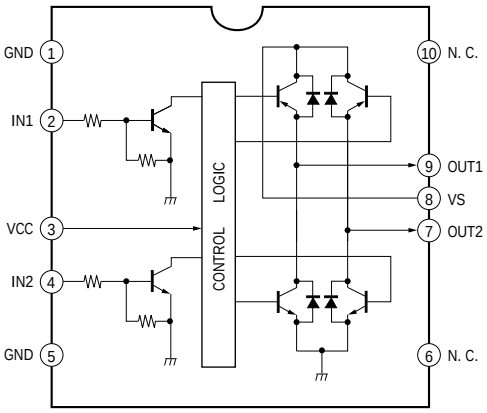
IC61 HA1218FP



IC91 BU2624FV



IC201 LB1638M



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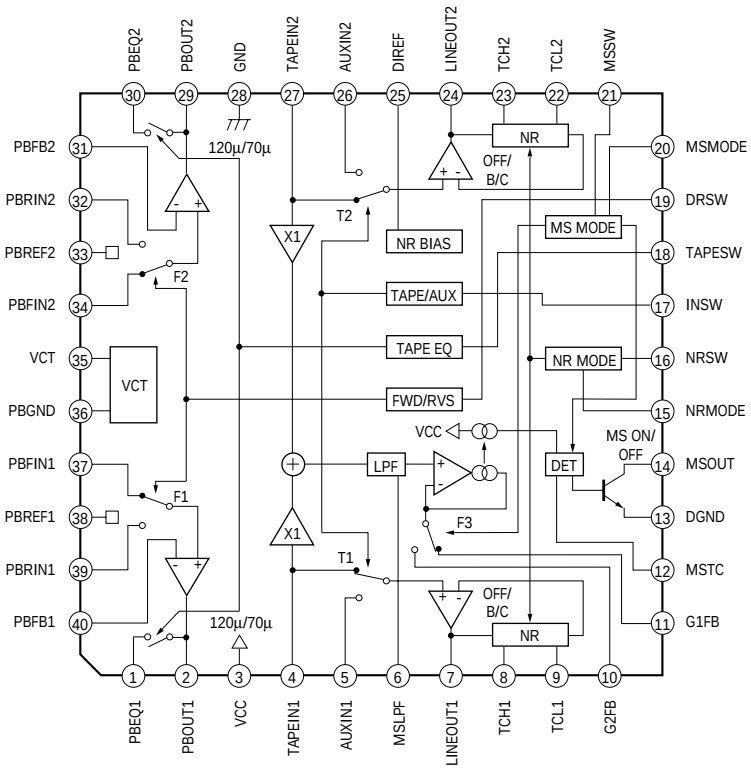
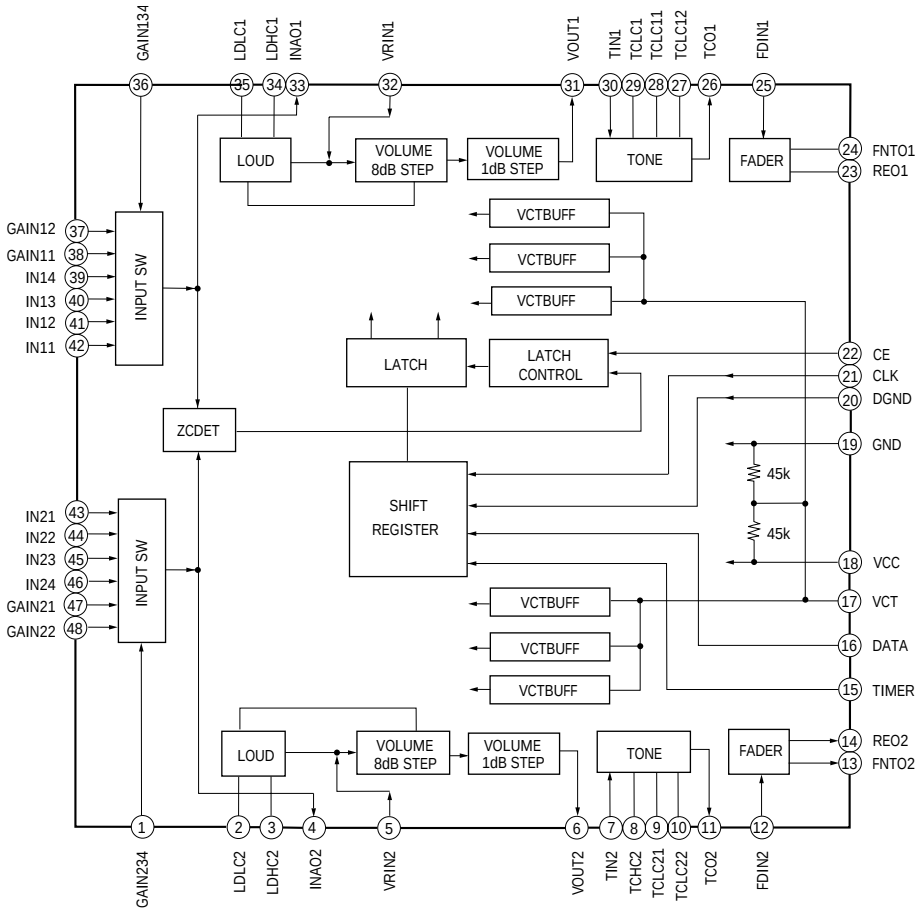
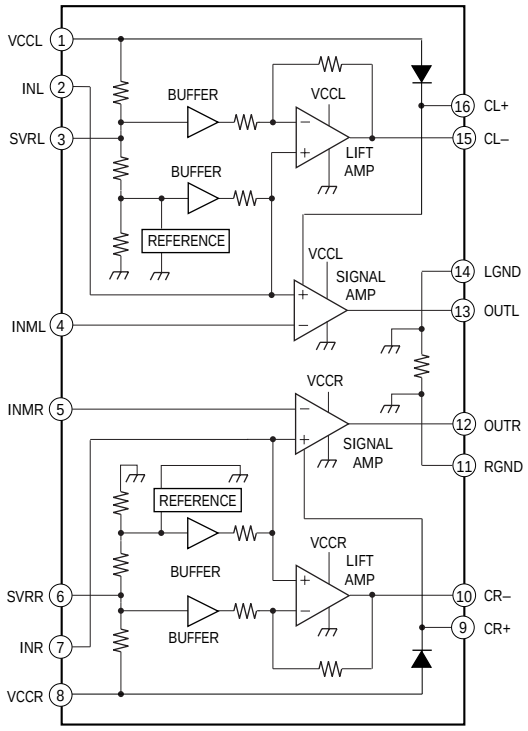


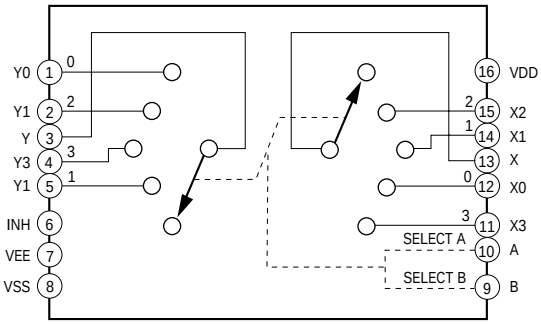
IC301 CXA1946BQ



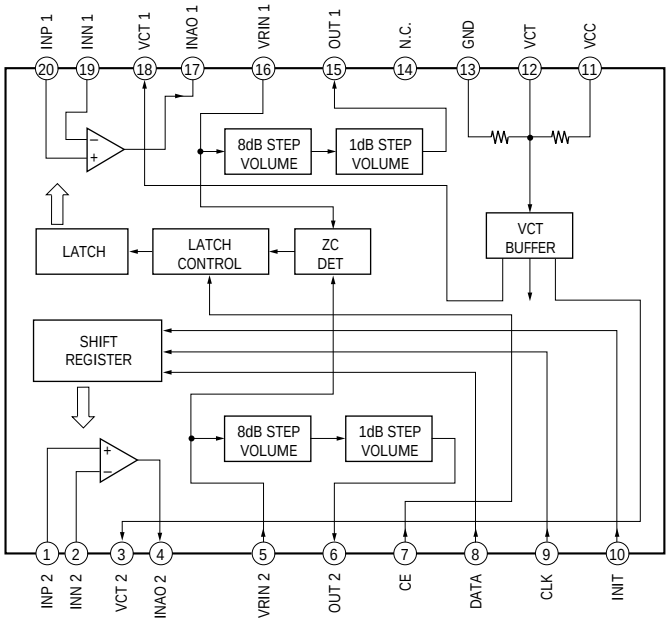
IC305, 405 TDA8574 (T)



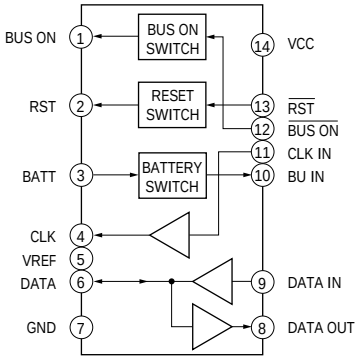
IC381 BU4052BCFV



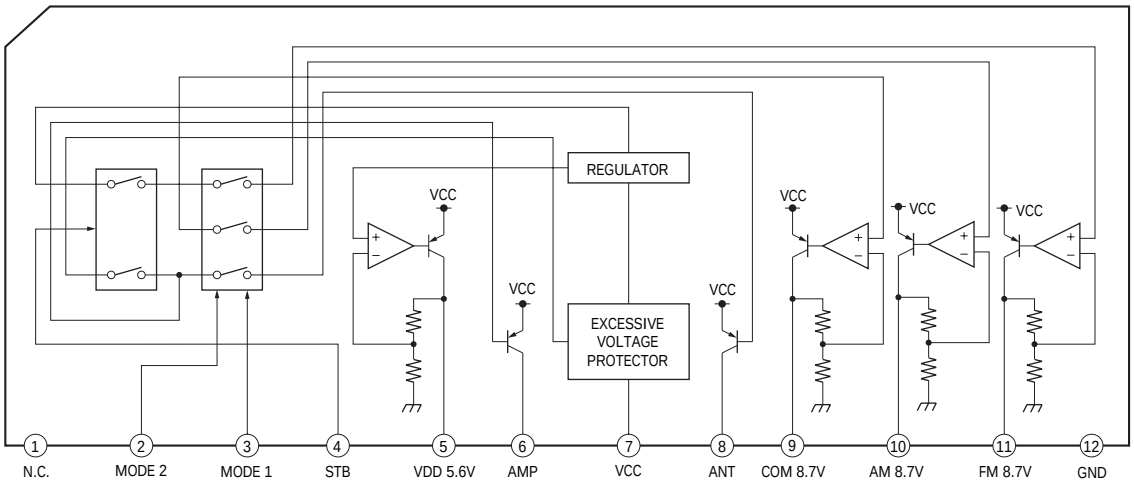
IC382 CXA1846N



IC571 BA8270F



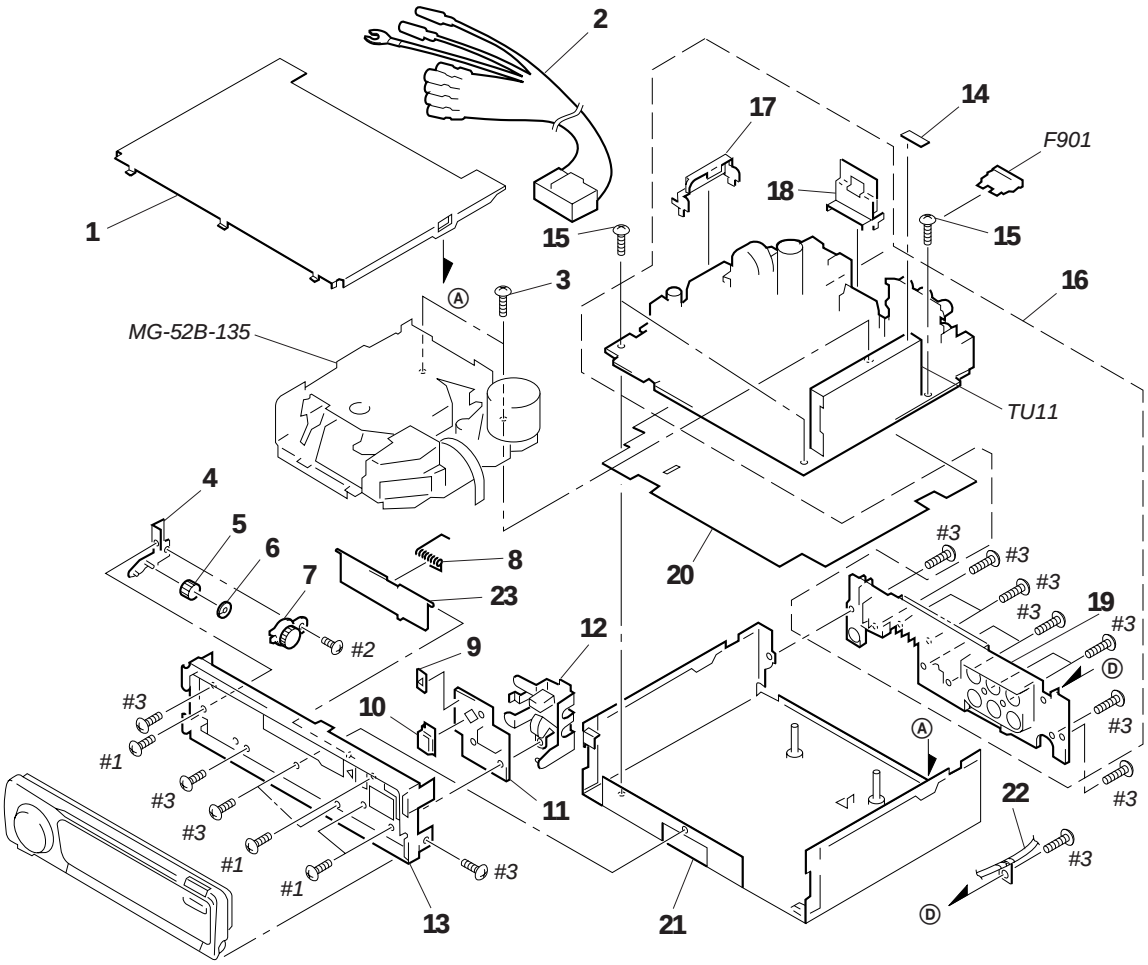
IC601 BA3918-V3



SECTION 7
EXPLODED VIEWS

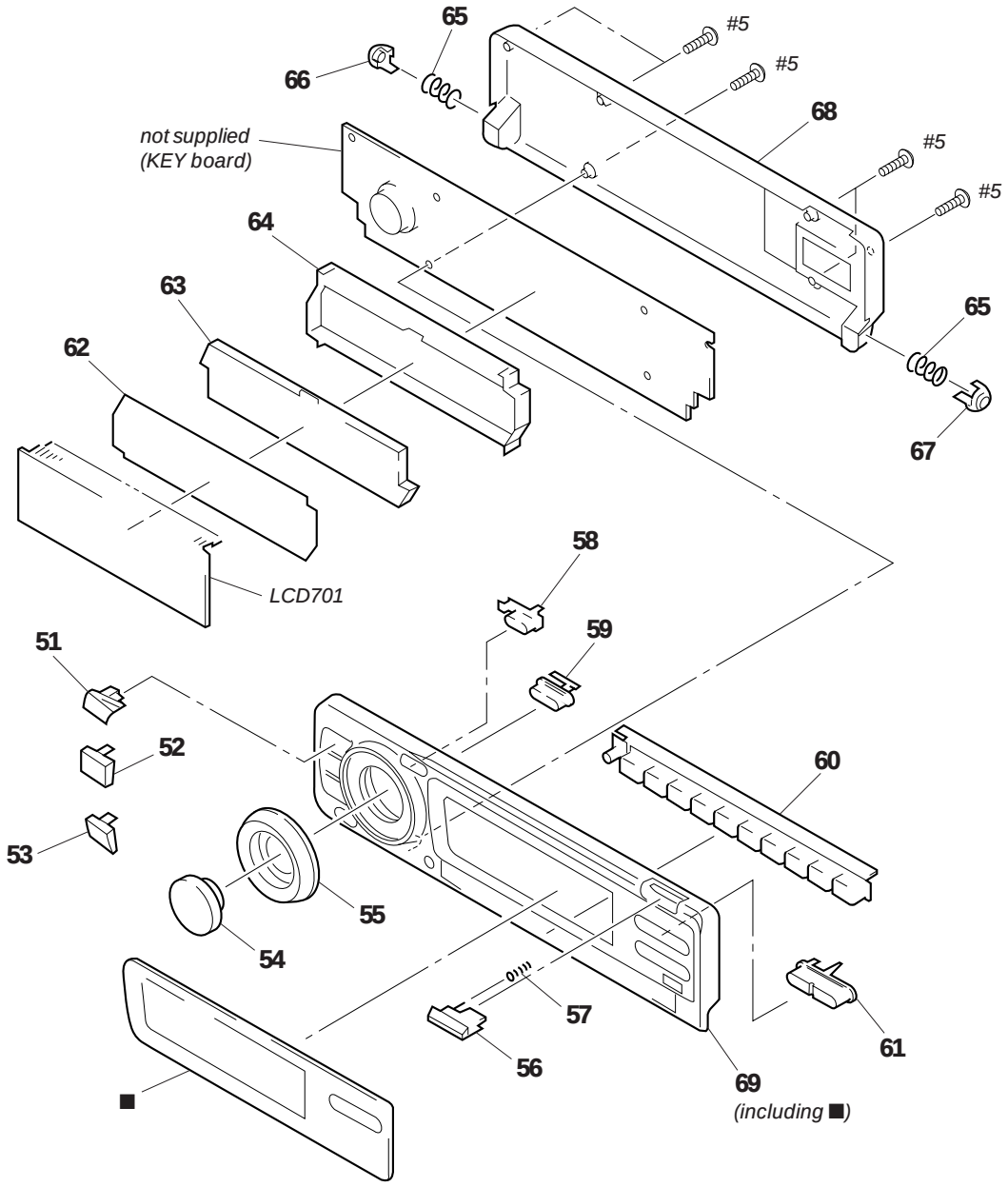
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

7-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 1	X-3373-362-1	COVER ASSY	
2	1-776-207-11	CORD (WITH CONNECTOR) (POWER)	
3	3-919-171-01	SCREW (2.6X6) (C TIGHT)	
4	X-3373-376-1	BRACKET (GEAR) ASSY	
5	3-011-170-01	GEAR (HOLDER)	
6	3-341-752-11	WASHER, POLYETHYLENE	
7	3-953-235-31	DAMPER, OIL	
8	3-913-076-01	SPRING (C DOOR), TORSION	
9	3-010-993-11	PLATE (C DOOR), LIGHT GUIDE	
10	3-010-996-01	BUTTON (EJECT)	
* 11	1-665-379-11	SUB BOARD	
12	X-3373-374-1	LOCK ASSY	
13	X-3373-541-1	PANEL ASSY, SUB	
* 14	3-355-209-01	PLATE (B), GROUND	
15	3-915-923-01	SCREW, GROUND POINT	
* 16	A-3309-978-A	MAIN BOARD, COMPLETE (US)	
* 16	A-3309-982-A	MAIN BOARD, COMPLETE (E)	
* 17	3-011-078-01	BRACKET (POWER IC)	
* 18	3-011-090-01	BRACKET (AMP)	
* 19	3-011-077-01	HEAT SINK	
* 20	3-012-196-01	INSULATOR	
* 21	X-3373-384-1	CHASSIS ASSY	
22	1-782-246-21	CORD (WITH CONNECTOR) (SUB W.OUT)	
23	3-922-165-91	DOOR, CASSETTE	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU11	A-3282-019-A	TUNER UNIT (TUX-008 (EA)) (E)	
TU11	A-3282-029-A	TUNER UNIT (TUX-006/2 (E)) (US)	

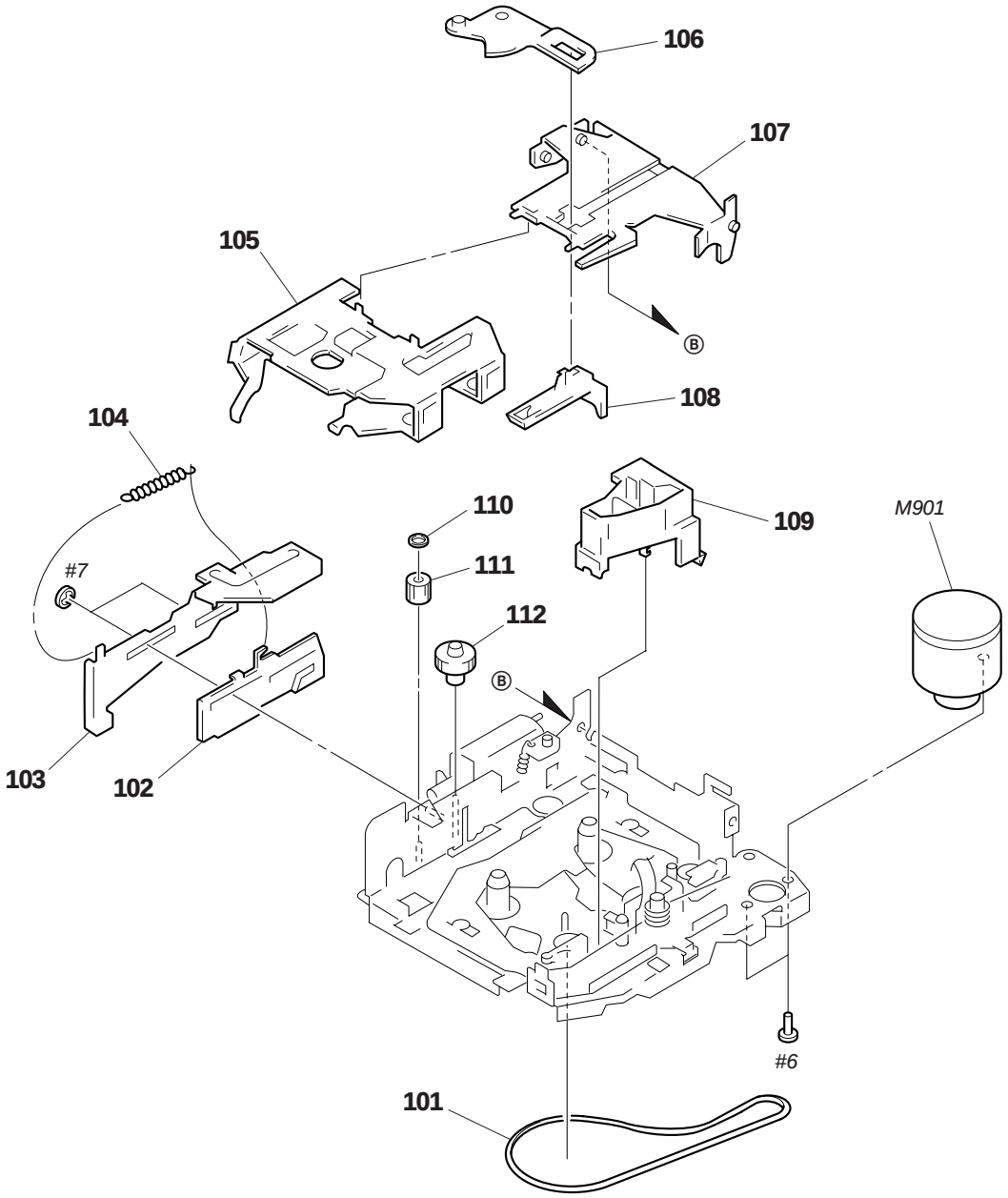
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-010-985-01	BUTTON (+)	
52	3-010-986-01	BUTTON (MODE)	
53	3-010-987-01	BUTTON (-)	
54	X-3373-383-1	BUTTON (SOURCE) ASSY	
55	3-010-989-01	KNOB (VOL)	
56	3-010-983-01	BUTTON (OPEN)	
57	3-010-997-01	SPRING (OPEN)	
58	3-010-982-01	BUTTON (SOUND)	
59	3-010-981-01	BUTTON (OFF)	
60	3-010-980-01	BUTTON (10 KEY)	
61	3-011-460-01	BUTTON (LIST)	

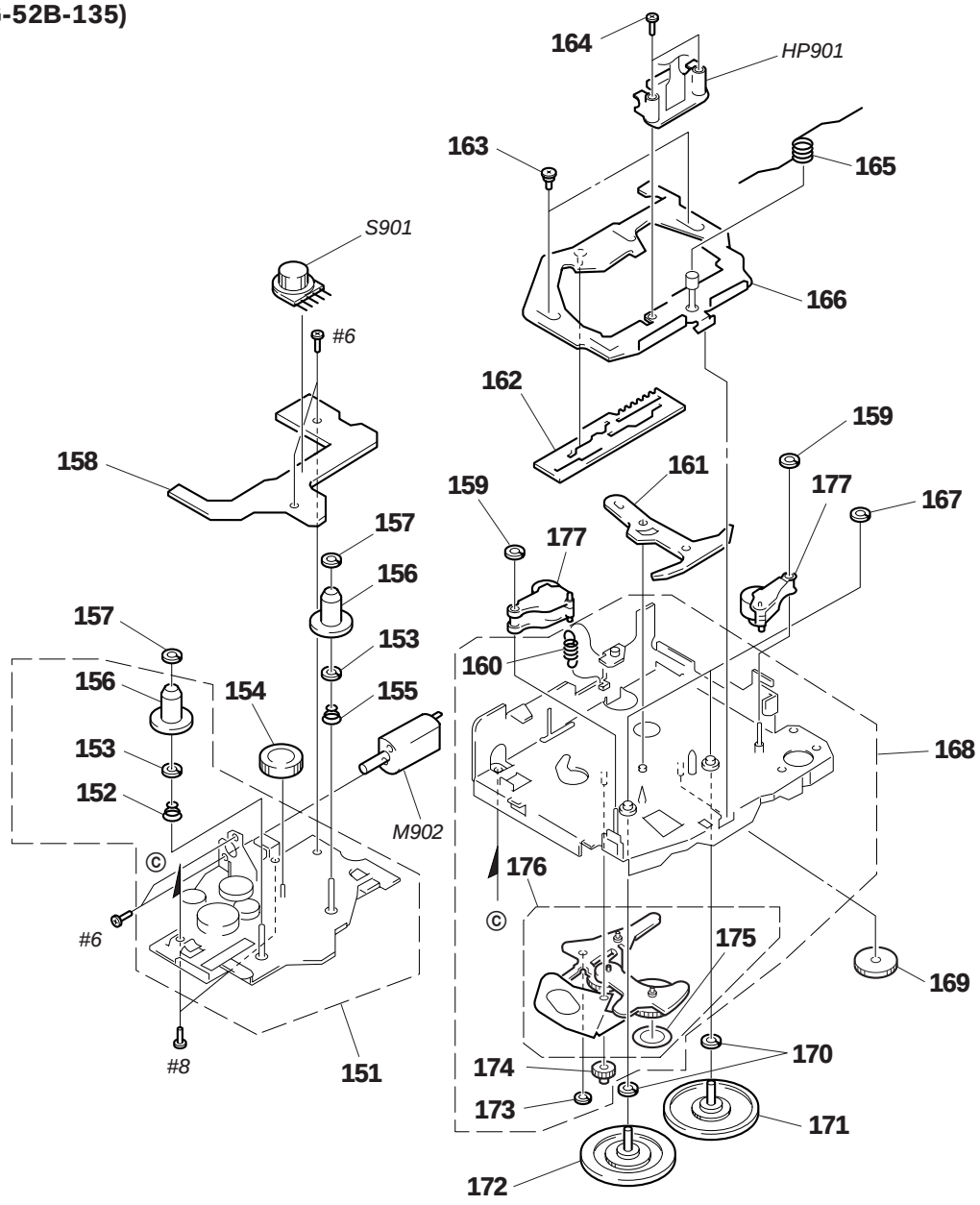
Ref. No.	Part No.	Description	Remark
* 62	3-010-995-01	ILLUMINATOR (LCD)	
* 63	3-010-991-01	PLATE (LCD), LIGHT GUIDE	
* 64	3-010-994-01	HOLDER (LCD)	
65	3-010-998-01	SPRING (BEARING)	
66	3-010-999-01	BEARING (L)	
67	3-011-000-01	BEARING (R)	
68	3-010-977-01	PANEL, FRONT BACK	
69	X-3373-704-1	PANEL SUB ASSY, FRONT (US)	
69	X-3373-722-1	PANEL SUB ASSY, FRONT (E)	
LCD701	1-801-679-11	DISPLAY PANEL, LIQUID CRYSTAL	

7-3. MECHANISM DECK SECTION-1
(MG-52B-135)



Ref. No.	Part No.	Description	Remark
101	3-928-675-01	BELT (52)	
* 102	3-928-673-01	LEVER (LDG-A)	
103	3-928-674-01	LEVER (LDG-B)	
104	3-933-341-01	SPRING (LEVER LDG), TENSION	
105	3-928-671-01	HOUSING	
* 106	3-933-347-01	ARM (SUCTION)	
107	3-933-340-01	HANGER	
108	3-933-346-01	CATCHER	
109	3-933-344-01	GUIDE (C)	
110	3-341-753-11	WASHER, POLYETHYLENE	
111	3-933-335-01	GEAR (LDG-FT)	
112	3-928-667-01	GEAR (LDG-A)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

7-4. MECHANISM DECK SECTION-2
(MG-52B-135)



Ref. No.	Part No.	Description	Remark
151	X-3371-710-1	CHASSIS (S) ASSY	
152	3-933-337-01	SPRING (B-T-R), CONE COIL	
153	3-701-437-01	POLY-SLIDER (A)	
154	3-933-333-01	GEAR (LDG-E)	
155	3-933-339-01	SPRING (B-T-F), CONE COIL	
156	3-933-345-01	GEAR, REEL	
157	3-954-807-01	WASHER	
158	1-660-169-11	REEL BOARD	
159	3-341-752-11	WASHER, POLYETHYLENE	
160	3-933-336-01	SPRING (ARM HANGER), TENSION	
161	3-928-669-01	LEVER (PINCH SELECTION)	
162	3-928-668-01	LEVER (MODE)	
163	3-933-338-01	SCREW (HP), STEP	
164	3-927-100-01	SCREW (+PS 2X10), SPECIAL	
165	3-928-670-01	SPRING (PINCH PRESS)	
* 166	X-3371-712-1	PLATE SUB ASSY, HEAD	
167	3-364-151-01	WASHER	
* 168	X-3371-705-1	CHASSIS (M) ASSY (B)	
169	X-3371-707-1	CLUTCH (PLAY) ASSY	
170	3-701-437-21	WASHER	
171	3-930-932-01	FLYWHEEL (F) (SEF)	
172	A-3291-667-A	CLUTCH (FR) ASSY	
173	3-321-813-01	WASHER, COTTER POLYETHYLENE	
174	3-933-343-01	GEAR (REVERSE)	
175	3-933-383-01	SEAL (32), REFLECTION	
176	X-3371-703-1	LEVER (GEAR) ASSY	
177	X-3371-713-2	LEVER (PINCH) ASSY	
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
M902	A-3291-664-A	MOTOR ASSY, SUB (LOADING/TAPE OPERATION)	
S901	1-692-885-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)	

SECTION 8
ELECTRICAL PARTS LIST

KEY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		KEY BOARD	
		**********	
*	3-010-991-01	PLATE (LCD), LIGHT GUIDE	
*	3-010-994-01	HOLDER (LCD)	
*	3-010-995-01	ILLUMINATOR (LCD)	
		< CAPACITOR >	
C770	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C771	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C772	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
		< CONNECTOR >	
CN701	1-778-183-11	PLUG, CONNECTOR 18P	
		< DIODE >	
D710	8-719-421-36	DIODE MA8036-L	
D770	8-719-420-90	DIODE MA8051-M	
D771	8-719-420-90	DIODE MA8051-M	
D773	8-719-404-49	DIODE MA111	
		< IC >	
IC701	8-759-331-68	IC uPD16432AGC-011-9EU	
IC702	8-749-012-17	IC RS-140-T	
		< LIQUID CRYSTAL DISPLAY >	
LCD701	1-801-679-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< DIODE >	
LED761	8-719-987-45	LED CL-155Y/PG-CD	
LED762	8-719-987-45	LED CL-155Y/PG-CD	
LED763	8-719-987-45	LED CL-155Y/PG-CD	
LED764	8-719-987-45	LED CL-155Y/PG-CD	
LED765	8-719-987-45	LED CL-155Y/PG-CD	
LED766	8-719-987-45	LED CL-155Y/PG-CD	
LED773	8-719-033-14	LED CL-170PG-CD-T	
LED774	8-719-033-13	LED CL-170Y-CD-T	

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
LSW700	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (OFF)	
LSW701	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)	
LSW702	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (- ⏮ ◀◀ (SEEK/AMS))	
LSW703	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (MODE ◀I▶)	
LSW704	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (+ ▶▶I ▶▶ (SEEK/AMS))	
LSW705	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOUND)	
LSW706	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SHIFT)	
LSW707	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (1)	
LSW708	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (2)	
LSW709	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (3)	
LSW710	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (4)	
LSW711	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (DSPL)	
LSW712	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (LIST)	
LSW715	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (10)	
LSW716	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (9)	
LSW717	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (8)	
LSW718	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (7)	
LSW719	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (6)	
LSW720	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (5)	
		< PILOT LAMP >	
PL701	1-517-630-21	LAMP, PILOT	
PL702	1-517-630-21	LAMP, PILOT	
		< TRANSISTOR >	
Q710	8-729-421-22	TRANSISTOR UN2211	
Q711	8-729-106-60	TRANSISTOR 2SB1115A	
Q712	8-729-904-66	TRANSISTOR DTD113EK	
Q713	8-729-904-66	TRANSISTOR DTD113EK	
Q714	8-729-230-49	TRANSISTOR 2SC2712-YG	
		< RESISTOR >	
R701	1-216-045-00	METAL CHIP 680 5% 1/10W	
R702	1-216-045-00	METAL CHIP 680 5% 1/10W	
R703	1-216-045-00	METAL CHIP 680 5% 1/10W	
R704	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R705	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R706	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	

KEY **MAIN**

Ref. No.	Part No.	Description				Remark
R707	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R708	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R709	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R710	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R711	1-216-045-00	METAL CHIP	680	5%	1/10W	
R712	1-216-045-00	METAL CHIP	680	5%	1/10W	
R713	1-216-045-00	METAL CHIP	680	5%	1/10W	
R714	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R715	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R716	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R717	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R718	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R719	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R720	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R721	1-216-170-00	METAL CHIP	68	5%	1/8W	
R722	1-216-170-00	METAL CHIP	68	5%	1/8W	
R724	1-216-170-00	METAL CHIP	68	5%	1/8W	
R725	1-216-033-00	METAL CHIP	220	5%	1/10W	
R726	1-216-170-00	METAL CHIP	68	5%	1/8W	
R727	1-216-033-00	METAL CHIP	220	5%	1/10W	
R728	1-216-033-00	METAL CHIP	220	5%	1/10W	
R729	1-216-041-00	METAL CHIP	470	5%	1/10W	
R730	1-216-041-00	METAL CHIP	470	5%	1/10W	
R731	1-216-029-00	METAL CHIP	150	5%	1/10W	
R732	1-216-029-00	METAL CHIP	150	5%	1/10W	
R750	1-216-041-00	METAL CHIP	470	5%	1/10W	
R751	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R752	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R754	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R770	1-216-041-00	METAL CHIP	470	5%	1/10W	
R771	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R772	1-216-041-00	METAL CHIP	470	5%	1/10W	
R773	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R780	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R781	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R782	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R783	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R784	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R785	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R786	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R787	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R788	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R789	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R790	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R791	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R792	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	

Ref. No.	Part No.	Description				Remark
		< ROTARY ENCODER >				
RE701	1-475-014-11	ENCODER, ROTARY				
**********						
*	A-3309-978-A	MAIN BOARD, COMPLETE (US)				
*	A-3309-982-A	MAIN BOARD, COMPLETE (E)				
		**********				
*	3-011-077-01	HEAT SINK				
*	3-011-078-01	BRACKET (POWER IC)				
*	3-011-090-01	BRACKET (AMP)				
	7-685-794-09	SCREW +PTT 2.6X10 (S)				
		< BUZZER >				
BZ556	1-504-920-11	BUZZER				
		< CAPACITOR >				
C11	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C12	1-126-933-11	ELECT	100uF	20%	16V	
C13	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C14	1-126-933-11	ELECT	100uF	20%	16V	
C15	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C16	1-124-584-00	ELECT	100uF	20%	10V	
C17	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C19	1-126-301-11	ELECT	1uF	20%	50V	
C20	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C31	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V (E)	
C31	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V (US)	
C32	1-124-257-00	ELECT	2.2uF	20%	50V	
C33	1-124-257-00	ELECT	2.2uF	20%	50V	
C35	1-126-301-11	ELECT	1uF	20%	50V	
C36	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C37	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	
C41	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V (E)	
C41	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V (US)	
C42	1-124-257-00	ELECT	2.2uF	20%	50V	
C43	1-124-257-00	ELECT	2.2uF	20%	50V	
C61	1-126-162-11	ELECT	3.3uF	20%	50V	
C62	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	
C63	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C64	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C65	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C66	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C67	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
C68	1-126-157-11	ELECT	10uF	20%	16V	
C69	1-164-232-11	CERAMIC CHIP	0.01uF		50V	

Ref. No.	Part No.	Description			Remark
C70	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C71	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C72	1-124-234-00	ELECT	22uF	20%	16V
C73	1-124-234-00	ELECT	22uF	20%	16V
C75	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C76	1-136-169-00	FILM	0.22uF	5%	50V
C77	1-137-368-11	FILM	0.0047uF	5%	50V
C91	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C92	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C93	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C94	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C95	1-126-157-11	ELECT	10uF	20%	16V
C96	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C97	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C98	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C101	1-126-157-11	ELECT	10uF	20%	16V
C102	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C104	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C105	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C106	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C111	1-126-301-11	ELECT	1uF	20%	50V
C201	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C202	1-126-157-11	ELECT	10uF	20%	16V
C203	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C204	1-126-103-11	ELECT	470uF	20%	16V
C206	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C207	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C231	1-124-234-00	ELECT	22uF	20%	16V
C232	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C234	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C241	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C242	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C243	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C244	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C251	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C252	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C253	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C254	1-126-159-11	ELECT	0.47uF	20%	50V
C255	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C256	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C261	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C262	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C263	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C264	1-126-159-11	ELECT	0.47uF	20%	50V
C265	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C266	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C267	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C268	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C269	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C271	1-124-257-00	ELECT	2.2uF	20%	50V
C281	1-124-257-00	ELECT	2.2uF	20%	50V
C301	1-126-565-11	ELECT	22uF	20%	16V
C305	1-136-165-00	FILM	0.1uF	5%	50V
C306	1-137-366-11	FILM	0.0022uF	5%	50V
C307	1-126-157-11	ELECT	10uF	20%	16V
C308	1-137-366-11	FILM	0.0022uF	5%	50V
C309	1-126-159-11	ELECT	0.47uF	20%	50V
C310	1-126-157-11	ELECT	10uF	20%	16V
C325	1-126-157-11	ELECT	10uF	20%	16V
C326	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C331	1-126-565-11	ELECT	22uF	20%	16V
C332	1-124-455-00	ELECT	100uF	20%	16V
C333	1-126-565-11	ELECT	22uF	20%	16V
C334	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C336	1-126-157-11	ELECT	10uF	20%	16V
C337	1-164-128-11	CERAMIC CHIP	0.0033uF	10%	100V
C341	1-126-565-11	ELECT	22uF	20%	16V
C342	1-124-455-00	ELECT	100uF	20%	16V
C343	1-126-565-11	ELECT	22uF	20%	16V
C344	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C346	1-126-157-11	ELECT	10uF	20%	16V
C347	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C351	1-124-589-11	ELECT	47uF	20%	16V
C352	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C353	1-124-234-00	ELECT	22uF	20%	16V
C354	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C356	1-124-236-00	ELECT	47uF	20%	16V
C357	1-124-589-11	ELECT	47uF	20%	16V
C358	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C359	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C361	1-126-565-11	ELECT	22uF	20%	16V
C365	1-110-501-00	CERAMIC CHIP	0.33uF	10%	16V
C366	1-110-501-00	CERAMIC CHIP	0.33uF	10%	16V
C367	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C368	1-126-157-11	ELECT	10uF	20%	16V
C371	1-126-157-11	ELECT	10uF	20%	16V
C372	1-126-157-11	ELECT	10uF	20%	16V
C373	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C381	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C383	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C384	1-124-584-00	ELECT	100uF	20%	10V
C385	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C386	1-124-234-00	ELECT	22uF	20%	16V
C401	1-126-565-11	ELECT	22uF	20%	16V
C405	1-136-165-00	FILM	0.1uF	5%	50V
C406	1-137-366-11	FILM	0.0022uF	5%	50V
C407	1-126-157-11	ELECT	10uF	20%	16V
C408	1-137-366-11	FILM	0.0022uF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C409	1-126-159-11	ELECT	0.47uF	20%	50V
C410	1-126-157-11	ELECT	10uF	20%	16V
C431	1-126-565-11	ELECT	22uF	20%	16V
C432	1-126-933-11	ELECT	100uF	20%	16V
C433	1-126-565-11	ELECT	22uF	20%	16V
C434	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C436	1-126-157-11	ELECT	10uF	20%	16V
C437	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C441	1-126-565-11	ELECT	22uF	20%	16V
C442	1-124-455-00	ELECT	100uF	20%	16V
C443	1-126-565-11	ELECT	22uF	20%	16V
C444	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C446	1-126-157-11	ELECT	10uF	20%	16V
C447	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C456	1-124-236-00	ELECT	47uF	20%	16V
C457	1-124-589-11	ELECT	47uF	20%	16V
C458	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C461	1-126-565-11	ELECT	22uF	20%	16V
C465	1-110-501-00	CERAMIC CHIP	0.33uF	10%	16V
C466	1-110-501-00	CERAMIC CHIP	0.33uF	10%	16V
C467	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C468	1-126-157-11	ELECT	10uF	20%	16V
C471	1-126-157-11	ELECT	10uF	20%	16V
C472	1-126-157-11	ELECT	10uF	20%	16V
C473	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C501	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C511	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C513	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C521	1-126-157-11	ELECT	10uF	20%	16V
C522	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C523	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C524	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C546	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C551	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C552	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C553	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C554	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C556	1-126-924-11	ELECT	330uF	20%	10V
C557	1-125-701-11	DOUBLE LAYERS	0.047F		5.5V
C561	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C562	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C572	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C581	1-126-163-11	ELECT	4.7uF	20%	50V
C591	1-126-163-11	ELECT	4.7uF	20%	50V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-107-888-11	ELECT	47uF	20%	25V
C603	1-107-888-11	ELECT	47uF	20%	25V
C604	1-107-888-11	ELECT	47uF	20%	25V
C611	1-126-157-11	ELECT	10uF	20%	16V
C612	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C651	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C661	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C670	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C672	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C673	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C701	1-136-165-00	FILM	0.1uF	5%	50V
C702	1-136-165-00	FILM	0.1uF	5%	50V
C703	1-136-165-00	FILM	0.1uF	5%	50V
C704	1-136-165-00	FILM	0.1uF	5%	50V
C705	1-136-165-00	FILM	0.1uF	5%	50V
C706	1-136-165-00	FILM	0.1uF	5%	50V
C707	1-136-165-00	FILM	0.1uF	5%	50V
C708	1-136-165-00	FILM	0.1uF	5%	50V
C710	1-137-194-11	FILM	0.47uF	5%	50V
C712	1-164-506-00	CERAMIC CHIP	4.7uF		16V
C715	1-126-572-11	ELECT	4.7uF	20%	35V
C716	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C717	1-107-893-11	ELECT	100uF	20%	35V
C718	1-124-257-00	ELECT	2.2uF	20%	50V
C901	1-111-233-11	ELECT	5600uF	20%	16V
C904	1-216-295-00	CONDUCTOR, CHIP (2012)			
C923	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C924	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C931	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C933	1-124-257-00	ELECT	2.2uF	20%	50V
C941	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C944	1-124-257-00	ELECT	2.2uF	20%	50V
C951	1-126-163-11	ELECT	4.7uF	20%	50V
C952	1-124-589-11	ELECT	47uF	20%	16V
C998	1-164-159-21	CERAMIC	0.1uF		50V
C999	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN11	1-764-808-14	JACK (ANTENNA)			
* CN201	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P			
CN231	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P			
CN301	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, FRONT/REAR LINE OUT)			
* CN302	1-750-241-21	PIN, CONNECTOR (PC BOARD) 3P			
CN571	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
CN651	1-770-411-11	CONNECTOR, BOARD TO BOARD 20P			
CN901	1-774-701-11	PIN, CONNECTOR 16P			
		< DISCHARGE GAP >			
CP11	1-519-504-11	GAP, DISCHARGE			

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D11	8-719-991-65	DIODE SB02W03C	
D71	8-719-422-49	DIODE MA8056-L	
D202	8-719-422-97	DIODE MA8091-M	
D203	8-719-404-49	DIODE MA111	
D501	8-719-400-20	DIODE MA152WA	
D521	8-719-404-49	DIODE MA111	
D554	8-719-105-99	DIODE RD6.2M-B1	
D556	8-719-991-65	DIODE SB02W03C	
D557	8-719-404-49	DIODE MA111	
D561	8-719-404-49	DIODE MA111	
D562	8-719-105-99	DIODE RD6.2M-B1	
D563	8-719-105-99	DIODE RD6.2M-B1	
D564	8-719-400-20	DIODE MA152WA	
D571	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D572	8-719-105-99	DIODE RD6.2M-B1	
D573	8-719-105-99	DIODE RD6.2M-B1	
D574	8-719-105-99	DIODE RD6.2M-B1	
D575	8-719-978-69	DIODE DTZ-TT11-16B	
D576	8-719-404-49	DIODE MA111	
D577	8-719-404-49	DIODE MA111	
D581	8-719-801-78	DIODE 1SS184	
D582	8-719-105-99	DIODE RD6.2M-B1	
D591	8-719-801-78	DIODE 1SS184	
D592	8-719-105-99	DIODE RD6.2M-B1	
D610	8-719-422-97	DIODE MA8091-M	
D651	8-719-158-49	DIODE RD12SB2	
D661	8-719-105-99	DIODE RD6.2M-B1	
D662	8-719-105-99	DIODE RD6.2M-B1	
D664	8-719-105-99	DIODE RD6.2M-B1	
D667	8-719-105-99	DIODE RD6.2M-B1	
D669	8-719-105-99	DIODE RD6.2M-B1	
D670	8-719-105-99	DIODE RD6.2M-B1	
D671	8-719-056-88	DIODE UDZ-TE-17-11B	
D672	8-719-105-99	DIODE RD6.2M-B1	
D673	8-719-105-99	DIODE RD6.2M-B1	
D701	8-719-313-74	DIODE SFPB-52V	
D901	8-719-049-38	DIODE 1N5404TU	
D923	8-719-105-99	DIODE RD6.2M-B1	
D924	8-719-105-99	DIODE RD6.2M-B1	
D951	8-719-422-16	DIODE MA8039-L-TX	
D952	8-719-404-50	DIODE MA111	
D953	8-719-404-49	DIODE MA111	
		< FUSE >	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	

Ref. No.	Part No.	Description	Remark
		< IC >	
IC61	8-759-367-11	IC HA12181FP-EL	
IC91	8-759-448-85	IC BU2624FV-E2	
IC101	8-759-460-54	IC uPD78013GC-761-AB8	
IC201	8-759-823-87	IC LB1638M	
IC231	8-752-079-80	IC CXA2511AQ-T4	
IC301	8-752-078-67	IC CXA1946BQ-T6	
IC305	8-759-444-50	IC TDA8574(T)	
IC381	8-759-387-26	IC BU4052BCFV-E2	
IC382	8-752-067-30	IC CXA1846N	
IC383	8-759-711-82	IC NJM4580E	
IC405	8-759-444-50	IC TDA8574(T)	
IC501	8-759-460-53	IC uPD78058GC-463-3B9	
IC551	8-759-363-81	IC XC61AN4002PR	
IC552	8-759-344-91	IC RN5VD23AA-TL	
IC571	8-759-449-89	IC BA8270F-E2	
IC601	8-759-347-50	IC BA3918-V3	
IC701	8-759-448-61	IC HA13156	
		< JACK >	
J561	1-566-822-41	JACK (REMOTE IN)	
		< COIL >	
L91	1-414-233-21	INDUCTOR, FERRITE BEAD	
L101	1-414-233-21	INDUCTOR, FERRITE BEAD	
L102	1-216-295-00	CONDUCTOR, CHIP (2012)	
L501	1-216-295-00	CONDUCTOR, CHIP (2012)	
L511	1-414-233-21	INDUCTOR, FERRITE BEAD	
L901	1-411-669-12	COIL, CHOKE	
		< TRANSISTOR >	
Q31	8-729-021-95	TRANSISTOR RN1441-A(TE85L)	
Q35	8-729-021-95	TRANSISTOR RN1441-A(TE85L)	
Q41	8-729-021-95	TRANSISTOR RN1441-A(TE85L)	
Q71	8-729-808-02	TRANSISTOR 2SD1622-T-TD	
Q72	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q73	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q101	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q111	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q201	8-729-030-18	TRANSISTOR 2SD2525	
Q202	8-729-424-08	TRANSISTOR UN2111	
Q203	8-729-106-60	TRANSISTOR 2SB1115A	
Q205	8-729-429-92	TRANSISTOR XN1211	
Q331	8-729-021-95	TRANSISTOR RN1441-A(TE85L)	
Q341	8-729-021-95	TRANSISTOR RN1441-A(TE85L)	
Q371	8-729-021-95	TRANSISTOR RN1441-A(TE85L)	
Q431	8-729-021-95	TRANSISTOR RN1441-A(TE85L)	

MAIN

Ref. No.	Part No.	Description	Remark
Q441	8-729-021-95	TRANSISTOR RN1441-A(TE85L)	
Q471	8-729-021-95	TRANSISTOR RN1441-A(TE85L)	
Q501	8-729-429-92	TRANSISTOR XN1211	
Q556	8-729-421-22	TRANSISTOR UN2211	
Q561	8-729-424-08	TRANSISTOR UN2111	
Q562	8-729-424-08	TRANSISTOR UN2111	
Q571	8-729-424-08	TRANSISTOR UN2111	
Q572	8-729-421-22	TRANSISTOR UN2211	
Q573	8-729-424-08	TRANSISTOR UN2111	
Q574	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q581	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q591	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q610	8-729-020-67	TRANSISTOR XN1A312-TX	
Q611	8-729-807-12	TRANSISTOR 2SD1802-S	
Q650	8-729-421-22	TRANSISTOR UN2211	
Q651	8-729-424-08	TRANSISTOR UN2111	
Q652	8-729-030-18	TRANSISTOR 2SD2525	
Q653	8-729-030-18	TRANSISTOR 2SD2525	
Q654	8-729-421-22	TRANSISTOR UN2211	
Q655	8-729-106-60	TRANSISTOR 2SB1115A	
Q656	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q657	8-729-216-22	TRANSISTOR 2SA1162-G	
Q701	8-729-421-22	TRANSISTOR UN2211	
Q951	8-729-424-08	TRANSISTOR UN2111	
Q952	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q953	8-729-021-94	TRANSISTOR 2SK1657-T1B	
		< RESISTOR >	
R11	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R12	1-216-037-00	METAL CHIP 330 5% 1/10W	
R13	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R14	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R15	1-216-295-00	CONDUCTOR, CHIP (2012)	
R16	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R17	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R18	1-216-296-00	CONDUCTOR, CHIP (3216)	
R19	1-216-296-00	CONDUCTOR, CHIP (3216)	
R32	1-208-518-61	METAL GLAZE 22K 2% 1/10W	
R33	1-216-296-00	CONDUCTOR, CHIP (3216)	
R35	1-216-659-11	METAL GLAZE 2.2K 0.5% 1/10W	
R36	1-208-522-61	METAL GLAZE 33K 2% 1/10W	
R42	1-208-518-61	METAL GLAZE 22K 2% 1/10W	
R61	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R62	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R63	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R64	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R65	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R71	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R72	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R73	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R74	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R75	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R91	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R92	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R93	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R94	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R95	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R101	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R103	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R104	1-216-097-00	METAL GLAZE 100K 5% 1/10W	(E)
R105	1-216-295-00	CONDUCTOR, CHIP (2012)	(US)
R106	1-216-295-00	CONDUCTOR, CHIP (2012)	(E)
R107	1-216-097-00	METAL GLAZE 100K 5% 1/10W	(US)
R111	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R201	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R202	1-216-150-00	METAL GLAZE 10 5% 1/8W	
R203	1-216-150-00	METAL GLAZE 10 5% 1/8W	
R204	1-216-150-00	METAL GLAZE 10 5% 1/8W	
R205	1-216-150-00	METAL GLAZE 10 5% 1/8W	
R206	1-208-453-61	METAL GLAZE 4.7K 2% 1/10W	
R207	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R232	1-208-550-61	METAL GLAZE 470K 2% 1/10W	
R251	1-208-534-61	METAL GLAZE 100K 2% 1/10W	
R252	1-208-534-61	METAL GLAZE 100K 2% 1/10W	
R253	1-208-760-11	METAL GLAZE 120 2% 1/10W	
R254	1-218-764-11	METAL GLAZE 330K 2% 1/10W	
R255	1-208-810-11	METAL GLAZE 15K 2% 1/10W	
R256	1-216-677-11	METAL CHIP 12K 0.5% 1/10W	
R257	1-216-682-11	METAL CHIP 20K 0.5% 1/10W	
R261	1-208-534-61	METAL GLAZE 100K 2% 1/10W	
R262	1-208-534-61	METAL GLAZE 100K 2% 1/10W	
R263	1-208-760-11	METAL GLAZE 120 2% 1/10W	
R264	1-218-764-11	METAL GLAZE 330K 2% 1/10W	
R265	1-208-810-11	METAL GLAZE 15K 2% 1/10W	
R266	1-216-677-11	METAL CHIP 12K 0.5% 1/10W	
R267	1-208-445-61	METAL GLAZE 2.2K 2% 1/10W	
R268	1-208-453-61	METAL GLAZE 4.7K 2% 1/10W	
R271	1-208-453-61	METAL GLAZE 4.7K 2% 1/10W	
R281	1-208-453-61	METAL GLAZE 4.7K 2% 1/10W	
R301	1-208-462-61	METAL GLAZE 10K 2% 1/10W	
R304	1-208-451-61	METAL CHIP 12K 2% 1/10W	(E)
R304	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	(US)
R330	1-208-437-61	METAL GLAZE 1K 2% 1/10W	
R331	1-208-518-61	METAL GLAZE 22K 2% 1/10W	
R332	1-208-522-61	METAL GLAZE 33K 2% 1/10W	
R333	1-216-635-11	METAL CHIP 220 0.5% 1/10W	
R334	1-208-518-61	METAL GLAZE 22K 2% 1/10W	

Ref. No.	Part No.	Description				Remark
R337	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R338	1-208-462-61	METAL GLAZE	10K	2%	1/10W	
R340	1-208-437-61	METAL GLAZE	1K	2%	1/10W	
R341	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R342	1-208-522-61	METAL GLAZE	33K	2%	1/10W	
R343	1-216-635-11	METAL CHIP	220	0.5%	1/10W	
R344	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R347	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R348	1-208-462-61	METAL GLAZE	10K	2%	1/10W	
R351	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R352	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R361	1-208-534-61	METAL GLAZE	100K	2%	1/10W	
R364	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R366	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R367	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R368	1-208-522-61	METAL GLAZE	33K	2%	1/10W	
R369	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R371	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W	
R372	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R373	1-216-635-11	METAL CHIP	220	0.5%	1/10W	
R374	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R401	1-208-462-61	METAL GLAZE	10K	2%	1/10W	
R404	1-208-451-61	METAL CHIP	12K	2%	1/10W	(E)
R404	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	(US)
R430	1-208-437-61	METAL GLAZE	1K	2%	1/10W	
R431	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R432	1-208-522-61	METAL GLAZE	33K	2%	1/10W	
R433	1-216-635-11	METAL CHIP	220	0.5%	1/10W	
R434	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R437	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R438	1-208-462-61	METAL GLAZE	10K	2%	1/10W	
R440	1-208-437-61	METAL GLAZE	1K	2%	1/10W	
R441	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R442	1-208-522-61	METAL GLAZE	33K	2%	1/10W	
R443	1-216-635-11	METAL CHIP	220	0.5%	1/10W	
R444	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R447	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R448	1-208-462-61	METAL GLAZE	10K	2%	1/10W	
R461	1-208-534-61	METAL GLAZE	100K	2%	1/10W	
R464	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R466	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R467	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R468	1-208-522-61	METAL GLAZE	33K	2%	1/10W	
R469	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R471	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W	
R472	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R473	1-216-635-11	METAL CHIP	220	0.5%	1/10W	
R474	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R501	1-216-097-00	METAL GLAZE	100K	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R503	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R504	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R505	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R506	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R507	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R508	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R510	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R511	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R512	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R513	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R514	1-216-295-00	CONDUCTOR, CHIP			(2012)	
R515	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R516	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R520	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R521	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R522	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R523	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R524	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R526	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R528	1-216-295-00	CONDUCTOR, CHIP			(2012)	
R531	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R532	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R533	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R534	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R535	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R536	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R537	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R538	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R539	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R540	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R541	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R542	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R546	1-216-041-00	METAL CHIP	470	5%	1/10W	
R551	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R552	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R553	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R556	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R561	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R562	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R563	1-216-675-11	METAL CHIP	10K	0.5%	1/10W	
R564	1-216-675-11	METAL CHIP	10K	0.5%	1/10W	
R566	1-216-675-11	METAL CHIP	10K	0.5%	1/10W	
R567	1-216-675-11	METAL CHIP	10K	0.5%	1/10W	
R571	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R572	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R573	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R574	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R576	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R577	1-216-089-00	METAL GLAZE	47K	5%	1/10W	

MAIN | **SUB**

Ref. No.	Part No.	Description				Remark
R578	1-216-009-00	METAL CHIP	22	5%	1/10W	
R581	1-208-494-61	METAL GLAZE	2.2K	2%	1/8W	
R582	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R584	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R585	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R591	1-208-494-61	METAL GLAZE	2.2K	2%	1/8W	
R592	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R594	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R595	1-208-518-61	METAL GLAZE	22K	2%	1/10W	
R611	1-208-437-61	METAL GLAZE	1K	2%	1/10W	
R651	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R652	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R653	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R654	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R655	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R657	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R658	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R659	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R661	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R662	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R664	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R667	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R669	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R670	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R671	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R672	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R673	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R675	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	
R676	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	
R701	1-208-373-11	METAL GLAZE	2.2	2%	1/8W	
R702	1-208-373-11	METAL GLAZE	2.2	2%	1/8W	
R703	1-208-373-11	METAL GLAZE	2.2	2%	1/8W	
R704	1-208-373-11	METAL GLAZE	2.2	2%	1/8W	
R705	1-208-373-11	METAL GLAZE	2.2	2%	1/8W	
R706	1-208-373-11	METAL GLAZE	2.2	2%	1/8W	
R707	1-208-373-11	METAL GLAZE	2.2	2%	1/8W	
R708	1-208-373-11	METAL GLAZE	2.2	2%	1/8W	
R714	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R715	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R923	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R924	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R932	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R942	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W	
R951	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R952	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R953	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R954	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R955	1-216-295-00	CONDUCTOR, CHIP		(2012)		

Ref. No.	Part No.	Description				Remark
		< NETWORK RESISTOR >				
RB504	1-236-904-11	NETWORK RESISTOR (CHIP) 1K				
		< VARIABLE RESISTOR >				
RV251	1-238-600-11	RES, ADJ, CARBON 10K				
RV261	1-238-600-11	RES, ADJ, CARBON 10K				
		< SWITCH >				
S101	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT) (E)				
S501	1-571-478-11	SWITCH, SLIDE (POWER SELECT)				
S541	1-762-108-11	SWITCH, PUSH (1 KEY) (NOSE DET)				
S551	1-692-431-21	SWITCH, TACTILE (RESET)				
		< TUNER >				
TU11	A-3282-019-A	TUNER UNIT (TUX-008 (EA)) (E)				
TU11	A-3282-029-A	TUNER UNIT (TUX-006/2 (E)) (US)				
		< VIBRATOR >				
X91	1-579-373-11	VIBRATOR, CRYSTAL (7.2MHz)				
X101	1-767-459-21	OSCILLATOR, CERAMIC (8MHz)				
X501	1-767-460-21	OSCILLATOR, CERAMIC (5MHz)				
X502	1-760-928-21	VIBRATOR, CRYSTAL (32.768kHz)				
**********						
*	1-665-379-11	SUB BOARD				
		**********				
		< CONNECTOR >				
CN800	1-779-170-11	SOCKET, CONNECTOR 20P				
CN801	1-779-169-11	SOCKET, CONNECTOR 18P				
		< DIODE >				
D800	8-719-422-64	DIODE MA8062-M				
D801	8-719-422-64	DIODE MA8062-M				
D802	8-719-422-64	DIODE MA8062-M				
D803	8-719-422-64	DIODE MA8062-M				
LED800	8-719-058-14	LED CL-220PG-C-TS (⏏)				
		< SWITCH >				
LSW800	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (⏏)				
		< TRANSISTOR >				
Q800	8-729-424-08	TRANSISTOR UN2111				
Q801	8-729-421-22	TRANSISTOR UN2211				
		< RESISTOR >				
R800	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R801	1-216-073-00	METAL CHIP	10K	5%	1/10W	

Ref. No.	Part No.	Description			Remark
R803	1-216-037-00	METAL CHIP	330	5%	1/10W
R804	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R805	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R806	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R807	1-216-049-11	METAL GLAZE	1K	5%	1/10W

****

MISCELLANEOUS
****

2	1-776-207-11	CORD (WITH CONNECTOR) (POWER)	
22	1-782-246-21	CORD (WITH CONNECTOR) (SUB W.OUT)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	
M902	A-3291-664-A	MOTOR ASSY, SUB (LOADING/TAPE OPERATION)	
S901	1-692-885-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)	

****

ACCESSORIES & PACKING MATERIALS
****

	1-467-559-71	REMOTE COMMANDER (RM-X45) (E)
	1-473-067-31	REMOTE COMMANDER (RM-X2S)
	3-859-451-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH, CHINESE) (E)
	3-859-451-21	MANUAL, INSTRUCTION (ENGLISH) (US)
	3-859-452-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,CHINESE) (E)
	3-859-452-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (US)
	9-939-081-01	LID, BATTERY CASE (RM-X45) (E)
	X-3373-617-1	CASE ASSY

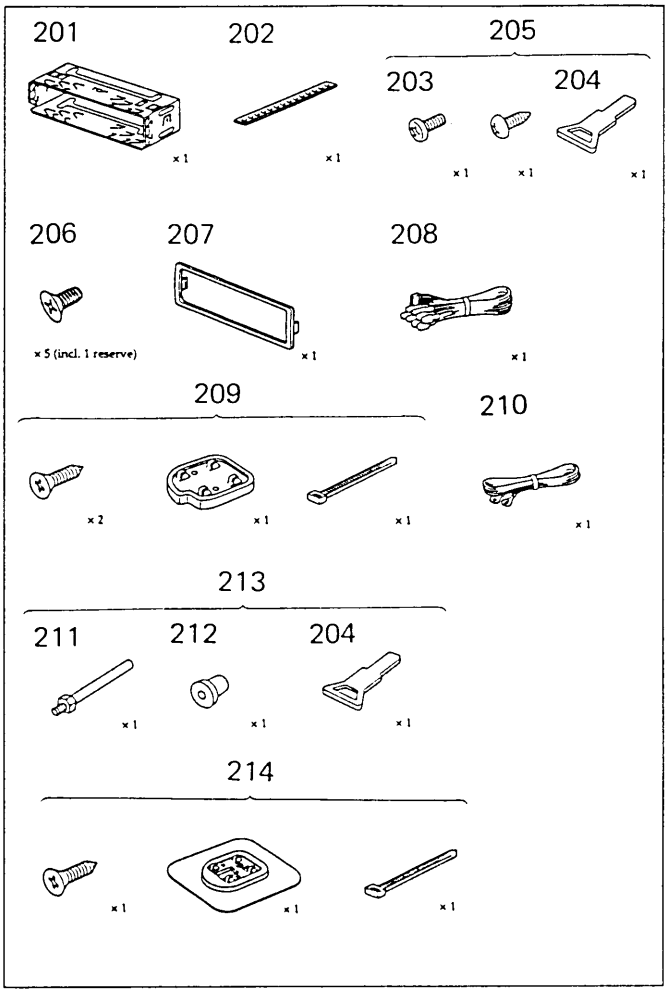
****

****
HARDWARE LIST
****

#1	7-621-772-30	SCREW +B 2X6
#2	7-621-255-15	SCREW +P 2X3
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)
#5	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT
#6	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3
#7	7-624-104-04	STOP RING 2.0, TYPE -E
#8	7-628-253-00	SCREW +PS 2X4

****

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
201	3-009-613-21	FRAME	
202	3-914-406-01	SUPPORT (ND), FITTING (US)	
203	7-682-560-04	SCREW +P 4X6 (US)	
204	3-388-078-01	KEY	
205	X-3370-076-1	SCREW ASSY (U.KEY), FITTING (US)	
206	3-934-325-01	SCREW, +K (5X8) TAPPING	
207	3-012-213-01	COLLAR	
208	1-776-207-11	CORD (WITH CONNECTOR) (POWER)	
209	X-3369-817-1	BRACKET ASSY (RM-X2S) (US)	
210	1-775-543-11	CORD, GROUND	
211	3-386-828-01	SCREW, FITTING (E)	
212	3-349-410-01	BUSHING (E)	
213	X-3370-077-1	SCREW ASSY (AE.KEY), FITTING (E)	
214	X-3373-432-1	BRACKET ASSY (RM-X2S) (E)	



9-925-577-11

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Personal & Mobile Communication Company

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Published by Quality Assurance Dept.

XR-C750

SONY

US Model
E Model

SERVICE MANUAL

SUPPLEMENT-1

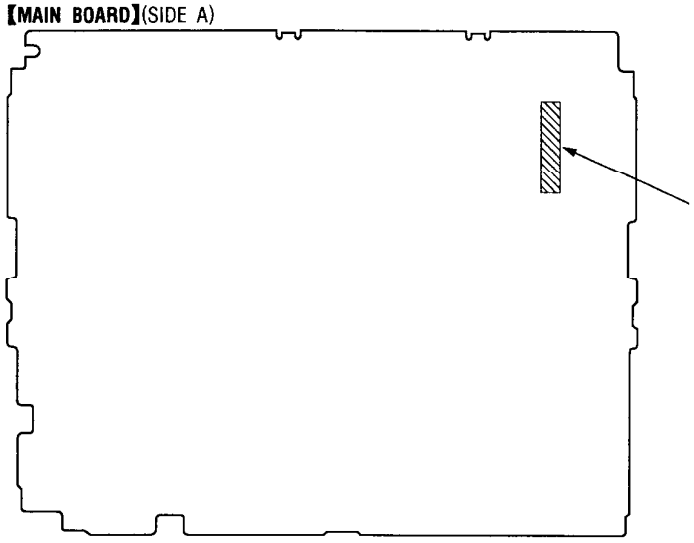
File this supplement with the service manual.

Subject : Change the Main Board and Sub Board

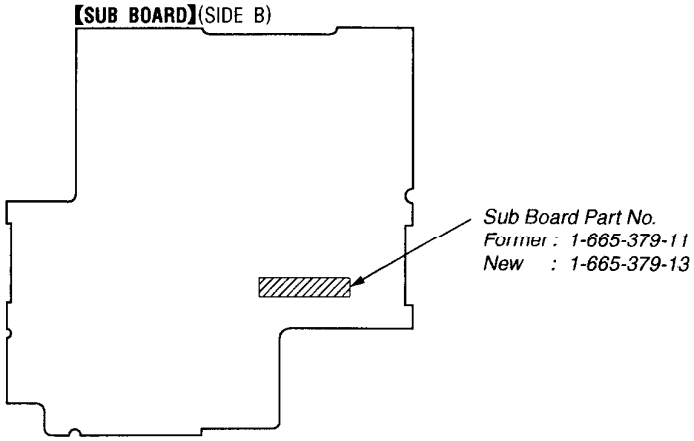
(ECN-CS701231)

When performing service and inspection, check the suffix of the part number of the main board and sub board.

[MAIN BOARD](SIDE A)

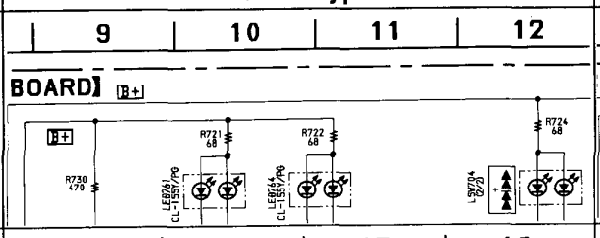
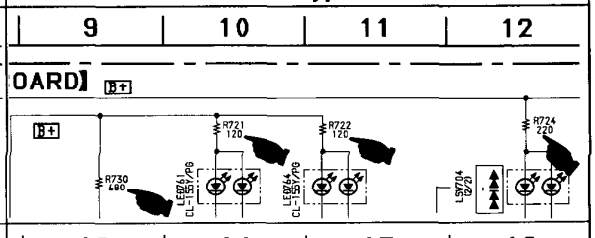
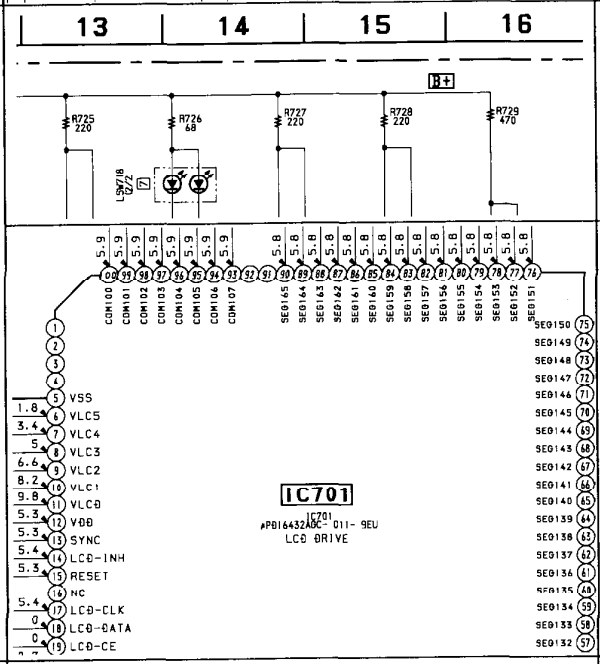
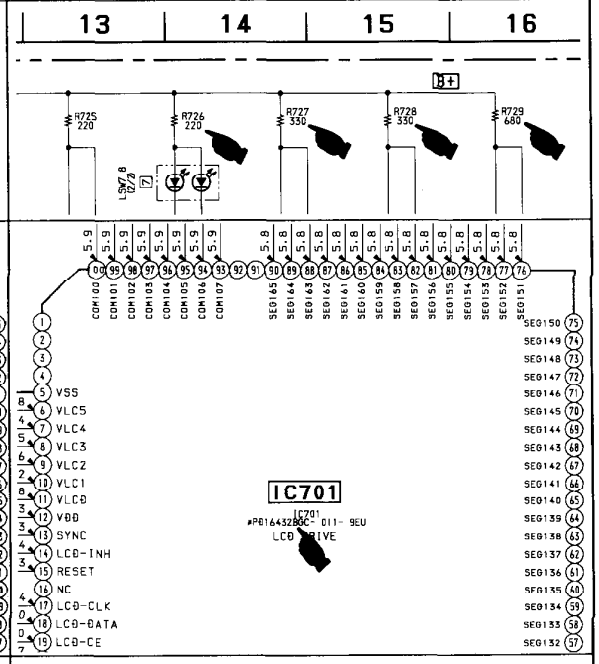


[SUB BOARD](SIDE B)



1. CHANGE OF SCHEMATIC DIAGRAM AND ELECTRICAL PARTS LIST (KEY BOARD)

☛ : Changed portion

Page	Former Type	New Type
45		
46		

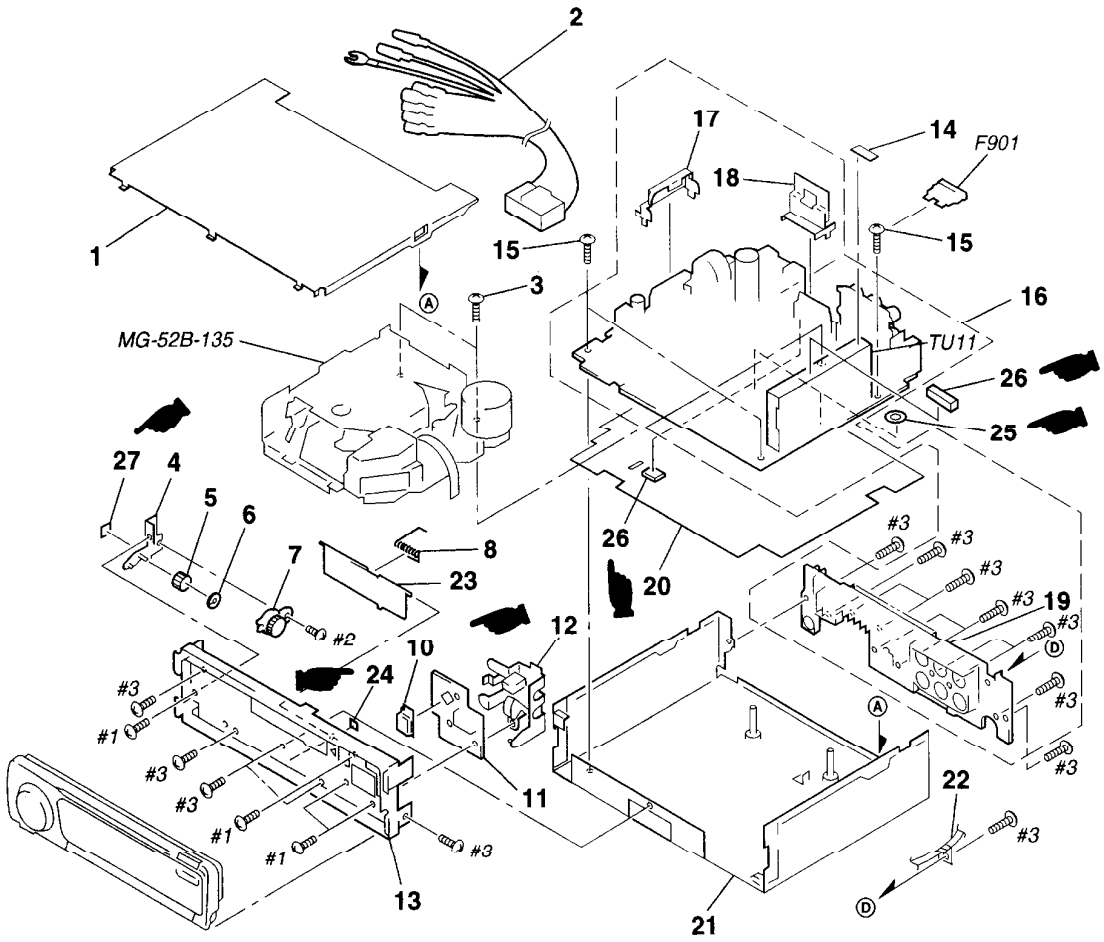
Page	Ref. No.	Part No.	Description			Remark
55	IC701	8-759-331-68	IC uPD16432AGC-011-9EU			
56	R721	1-216-170-00	METAL CHIP	68	5%	1/8W
	R722	1-216-170-00	METAL CHIP	68	5%	1/8W
	R724	1-216-170-00	METAL CHIP	68	5%	1/8W
	R726	1-216-170-00	METAL CHIP	68	5%	1/8W
	R727	1-216-033-00	METAL CHIP	220	5%	1/10W
	R728	1-216-033-00	METAL CHIP	220	5%	1/10W
	R729	1-216-041-00	METAL CHIP	470	5%	1/10W
	R730	1-216-041-00	METAL CHIP	470	5%	1/10W

Page	Ref. No.	Part No.	Description			Remark
55	IC701	8-759-474-47	IC uPD16432BGC-011-9EU			
56	R721	1-216-176-11	METAL GLAZE	120	5%	1/8W
	R722	1-216-176-11	METAL GLAZE	120	5%	1/8W
	R724	1-216-182-00	METAL GLAZE	220	5%	1/8W
	R726	1-216-182-00	METAL GLAZE	220	5%	1/8W
	R727	1-216-037-00	METAL CHIP	330	5%	1/10W
	R728	1-216-037-00	METAL CHIP	330	5%	1/10W
	R729	1-216-045-00	METAL CHIP	680	5%	1/10W
	R730	1-216-045-00	METAL CHIP	680	5%	1/10W

2. CHANGE OF EXPLODED VIEWS

☛ : Changed portion

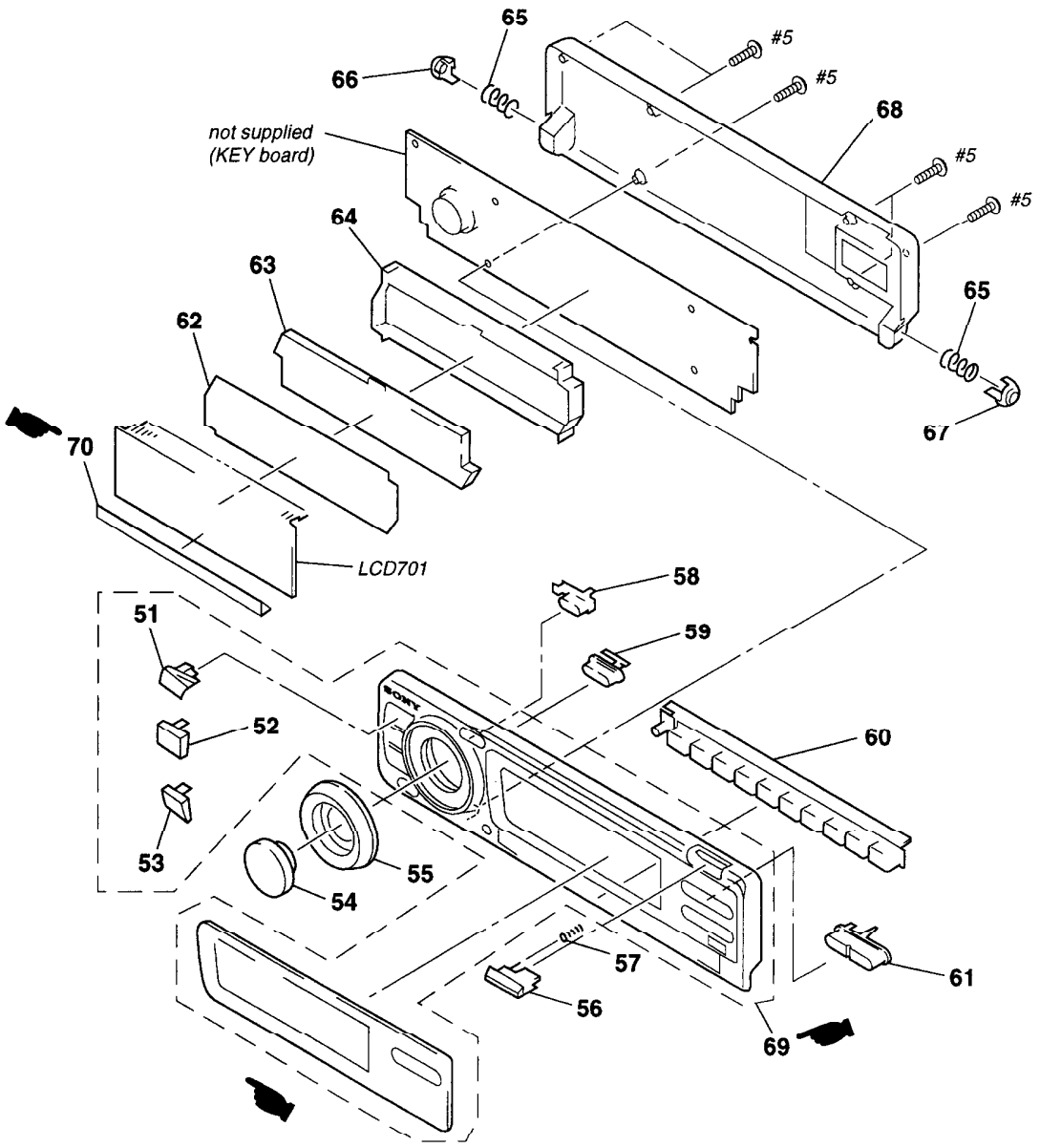
Page
51



Former Type				New Type			
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
9	3-010-993-11	PLATE (C DOOR), LIGHT GUIDE		——— ☛			
23	3-922-165-91	DOOR, CASSETTE		23	3-922-165-92	DOOR, CASSETTE	
	———			* 24	3-015-565-01	SPACER (SW) ☛	
	———			25	3-016-456-01	SPACER (SHAFT) ☛	
	———			26	9-911-840-XX	CUSHION (U) ☛	
	———			27	3-015-291-01	SPACER (GEAR) ☛	

☛ : Changed portion

Page
52



Former Type				New Type			
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
54	X-3373-383-1	BUTTON (SOURCE) ASSY		54	X-3373-383-2	BUTTON (SOURCE) ASSY	
56	3-010-983-01	BUTTON (OPEN)		56	3 010 983-02	BUTTON (OPEN)	
	————			70	3-015-290-01	SHEET (LCD), ELECTROSTATIC	☛

4. PRINTED WIRING BOARDS — MAIN SECTION —

• Semiconductor Location

Ref No.	Location	Ref No.	Location
D11	E-13	IC301	F-7
D71	F-14	IC305	D-8
D202	F-21	IC381	E-6
D203	F-21	IC382	E-6
D501	G-3	IC383	E-6
D521	E-3	IC405	D-8
D554	I-21	IC501	G-4
D556	E-2	IC551	I-3
D557	E-2	IC552	I-20
D561	B-21	IC571	D-2
D562	C-21	IC601	D-21
D563	C-22	IC701	B-17
D564	I-8		
D571	D-3	Q31	H-13
D572	D-3	Q35	H-15
D573	C-21	Q41	H-13
D574	C-21	Q71	E-9
D575	C-2	Q72	C-13
D576	D-2	Q73	C-13
D577	D-3	Q101	H-6
D581	E-4	Q111	H-9
D582	E-4	Q201	G-21
D591	E-4	Q202	G-22
D592	E-4	Q203	E-2
D610	D-18	Q205	H-5
D651	H-21	Q331	B-15
D652	H-21	Q341	B-14
D661	I-7	Q371	D-16
D662	I-7	Q431	B-15
D664	I-8	Q441	B-14
D667	I-8	Q471	E-16
D669	I-7	Q501	G-3
D670	I-7	Q556	H-21
D671	I-7	Q561	I-8
D672	I-15	Q562	I-8
D673	I-15	Q571	C-3
D701	C-6	Q572	C-2
D702	A-18	Q573	E-2
D703	C-17	Q574	D-3
D704	A-17	Q581	E-4
D705	C-16	Q591	E-4
D706	D-16	Q610	D-4
D707	B-5	Q611	D-4
D901	C-20	Q651	H-2
D923	C-4	Q652	G-21
D924	C-4	Q653	H-2
D951	D-7	Q654	G-21
D953	D-4	Q656	H-20
		Q657	H-20
IC61	H-8	Q701	C-5
IC91	D-10	Q951	D-5
IC101	I-5	Q952	D-5
IC201	G-20	Q953	C-5
IC231	G-8		

Note

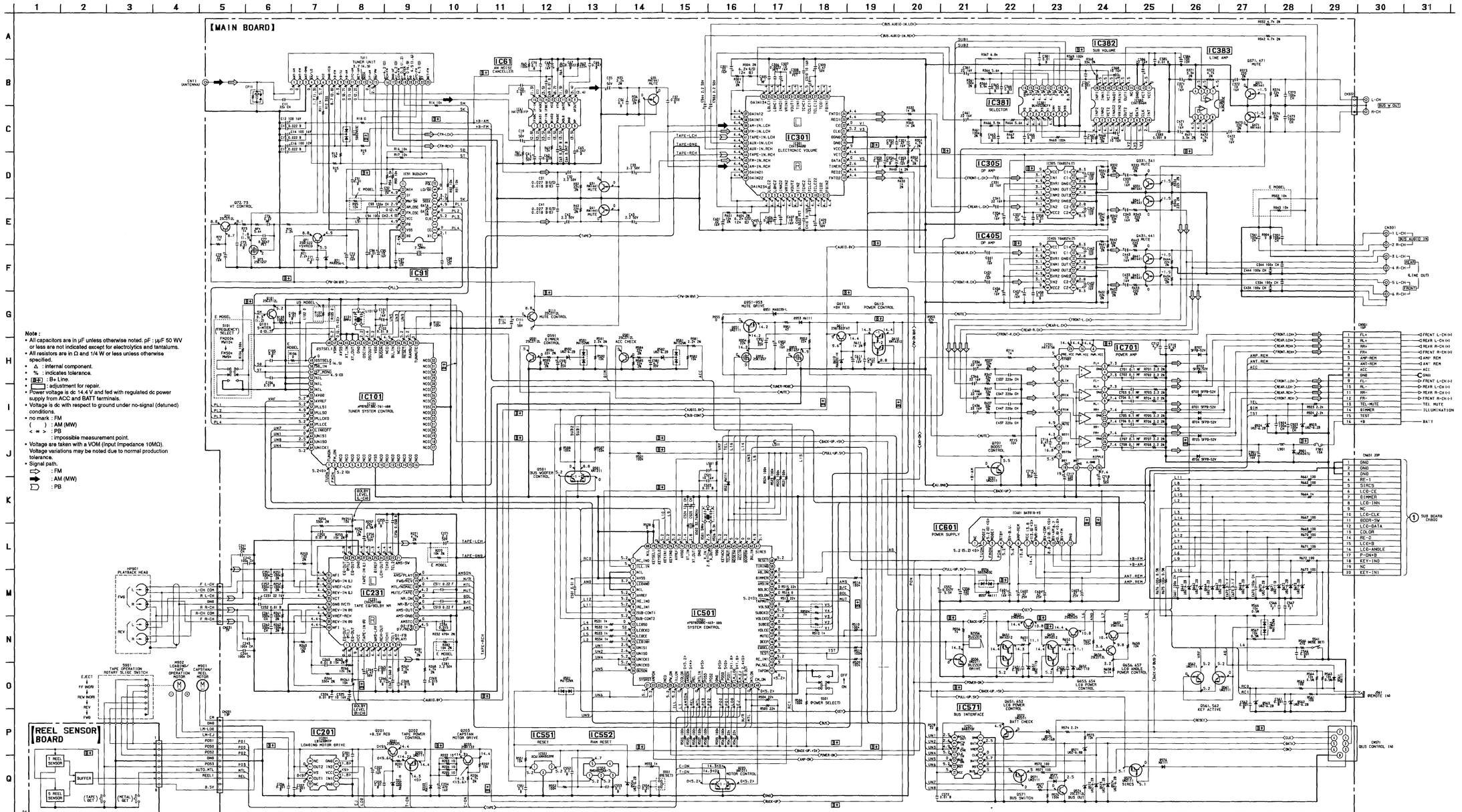
- ○— parts extracted from the component side
- —○ parts extracted from the conductor side
- ● Through hole
- ▭ Pattern on the side which is seen (The other layer's patterns are not indicated.)

【MAIN BOARD】(SIDE A)

【MAIN BOARD】(SIDE B)

【REEL SENSOR BOARD】

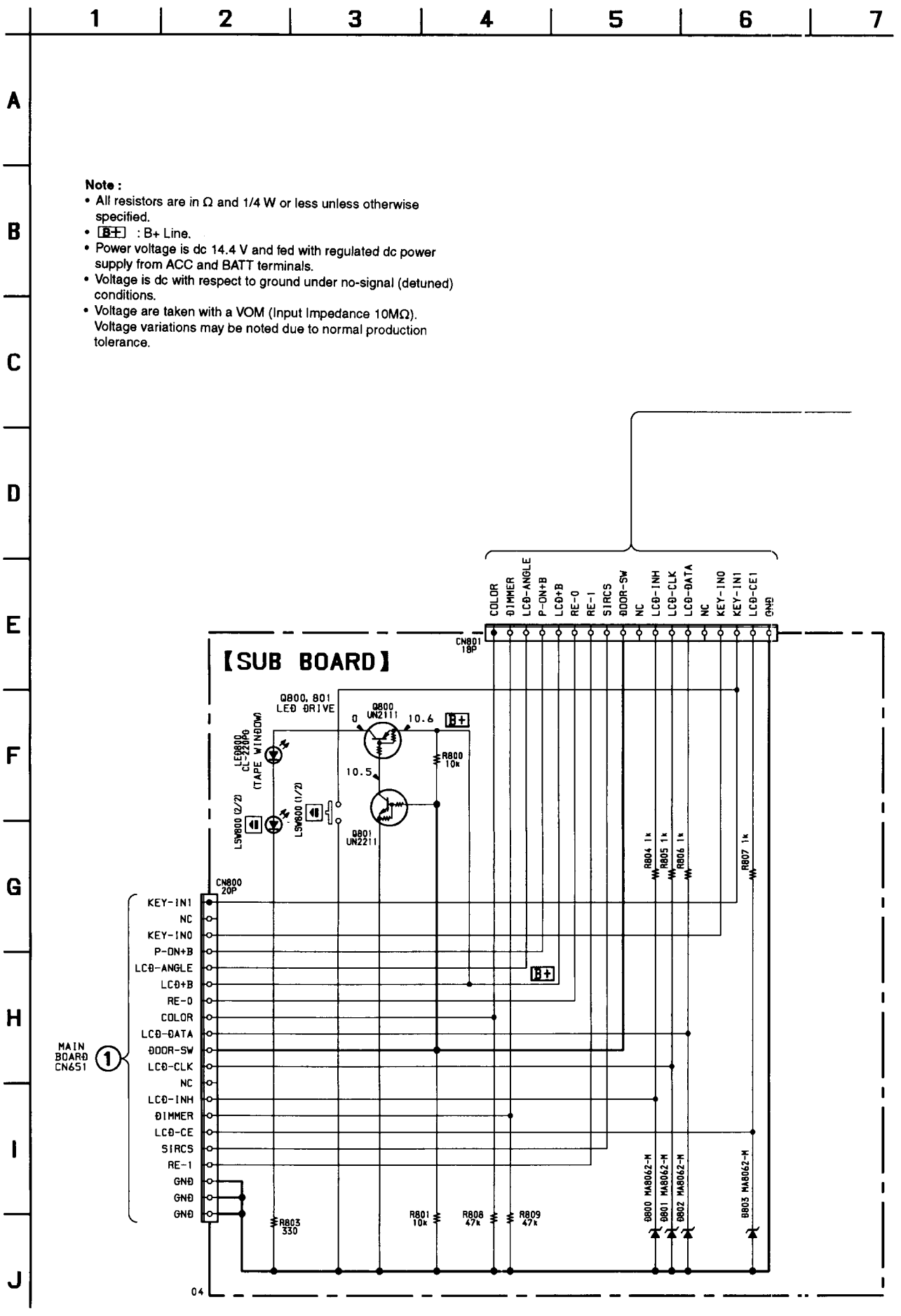
5. SCHEMATIC DIAGRAM — MAIN SECTION —


【MAIN BOARD】
【REEL SENSOR BOARD】
IC101
IC201
IC231
IC301
IC305
IC381
IC382
IC383
IC405
IC501
IC551
IC552
IC571
IC601
IC701
Note :
• All capacitors are in μF unless otherwise noted. pF : μμF 50 WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and 1/4 W or less unless otherwise specified.
• △ : Internal component.
• % : indicates tolerance.
• B+ : B+ Line.
• ▭ : adjustment for repair.
• Power voltage is dc 14.4 V and fed with regulated dc power supply from ACC and BATT terminals.
• Voltage is dc with respect to ground under no-signal (detuned) conditions.
• no mark : FM
( ) : AM (MW)
< > : PB
: impossible measurement point.
• Voltage are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerance.
• Signal path.
: FM
: AM (MW)
: PB

6. SCHEMATIC DIAGRAM — SUB BOARD —

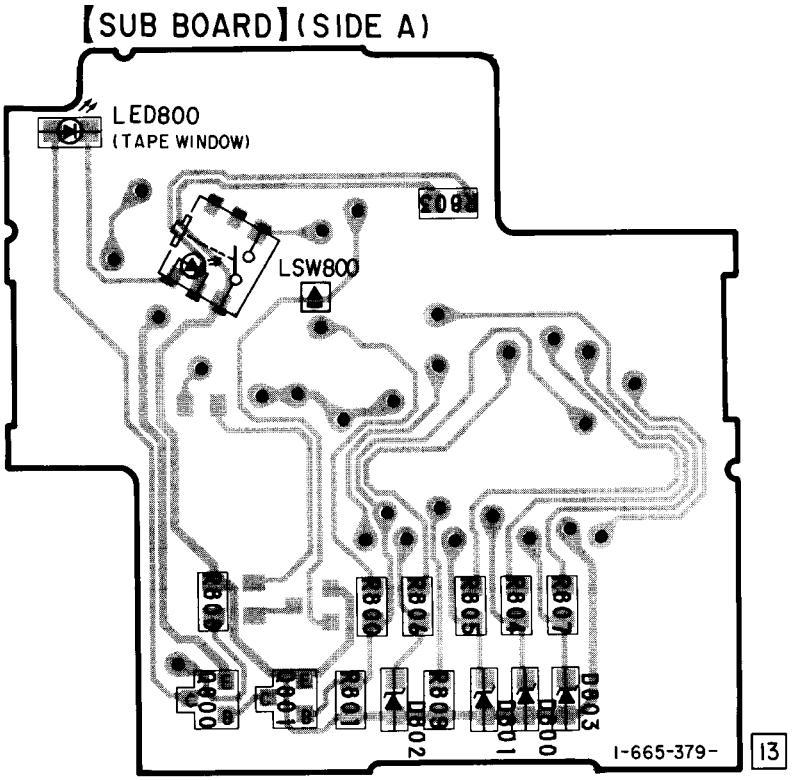
Note :

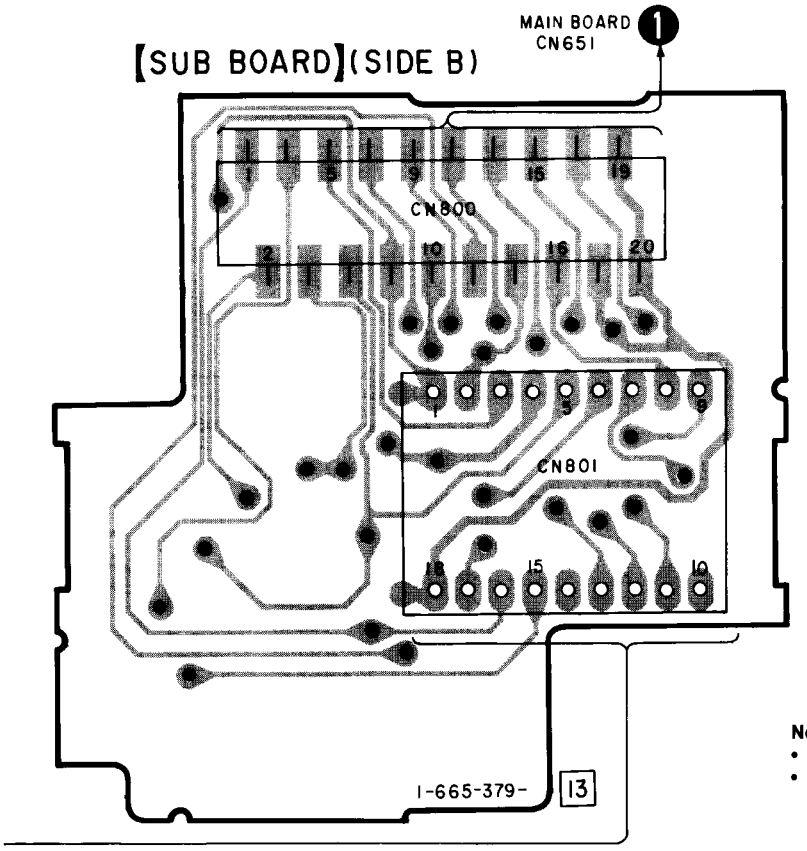
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- B+ : B+ Line.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from ACC and BATT terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- Voltage are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerance.



7. PRINTED WIRING BOARD — SUB BOARD —

11	12	13	14





Note :
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
(The other layer's patterns are not indicated.)

XR-C750

SONY

US Model
E Model

SERVICE MANUAL

SUPPLEMENT-2

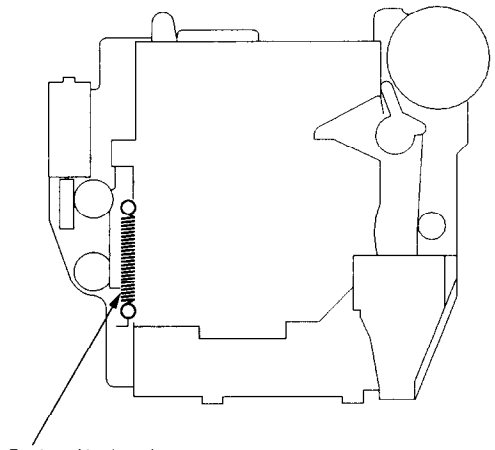
File this supplement with the service manual.

Subject : Changed Mechanism Deck

The type of mechanism deck was changed from MG-52B-135 to MG-25D-136 on the way of production. When servicing the new type of mechanism deck, refer to this service manual supplement-2.

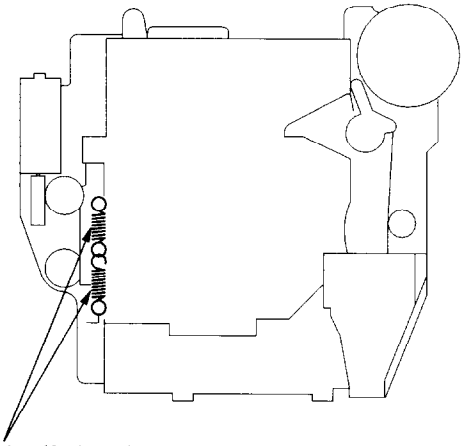
• How to distinguish between former and new types :

Former Type : MG-52B-135



Spring (1 place)

New Type : MG-25D-136

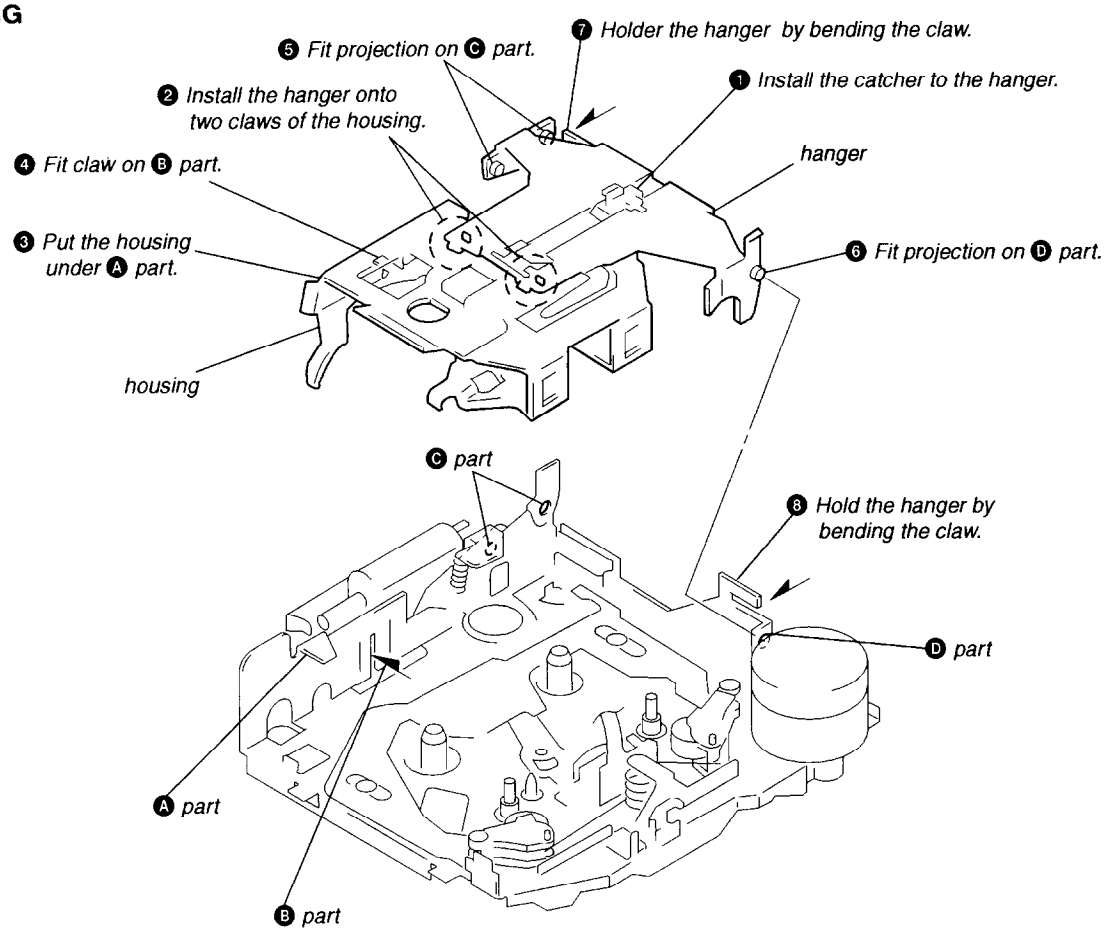


Spring (2 places)

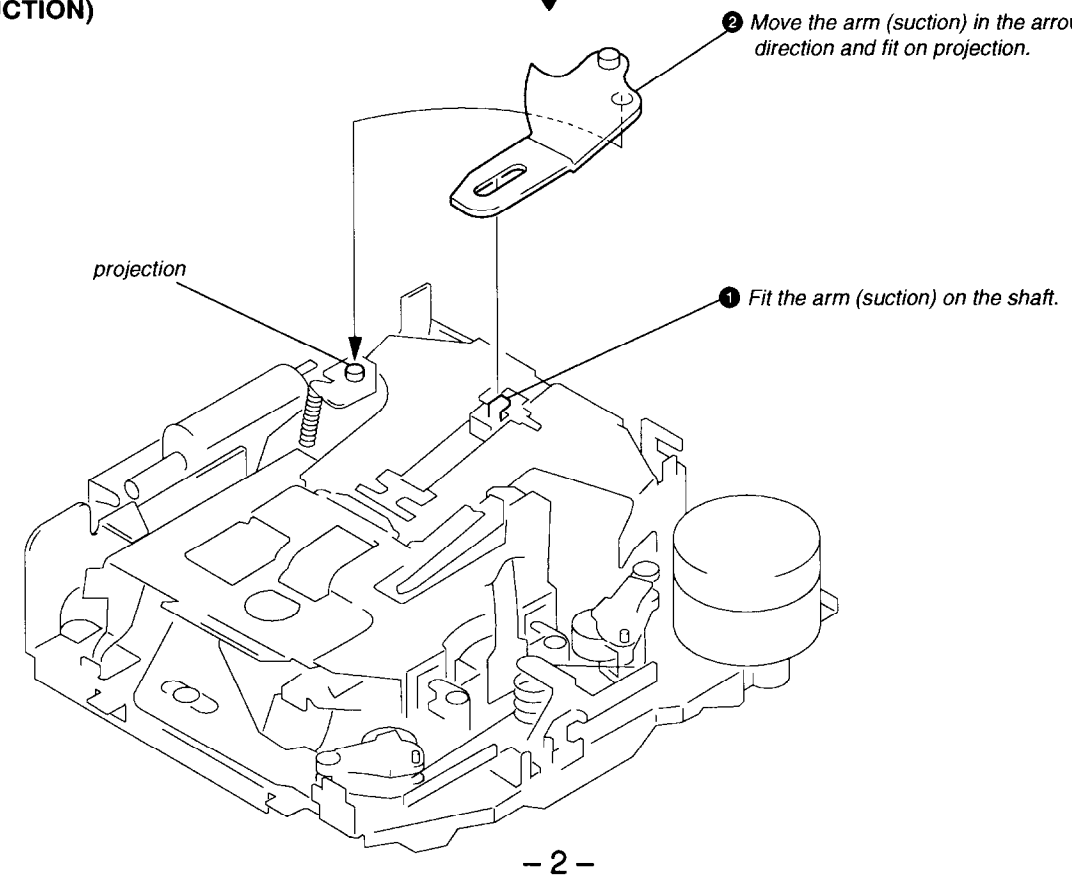
SECTION 3
ASSEMBLY OF MECHANISM DECK

Note : Follow the assembly procedure in the numerical order given.

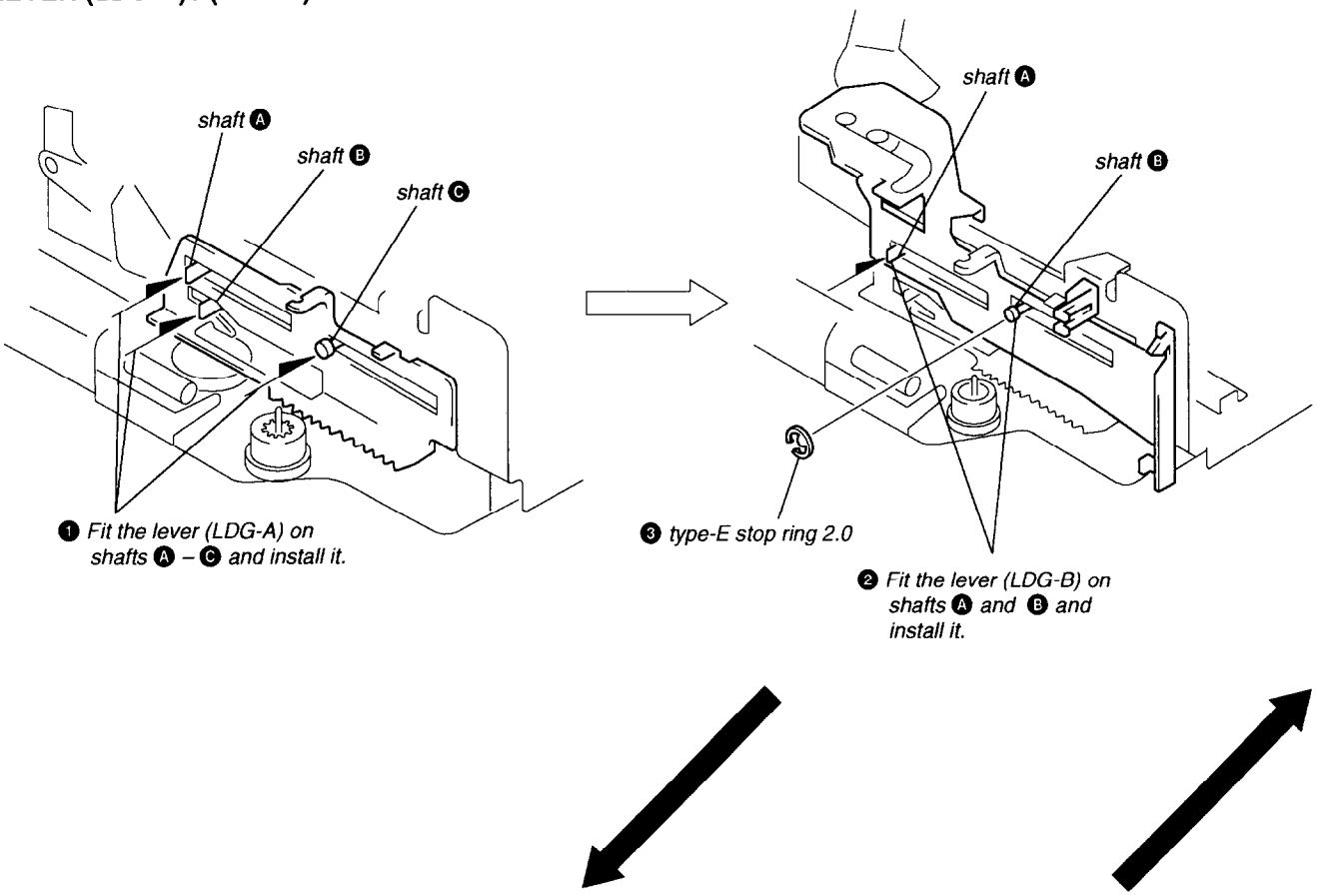
HOUSING


❼ Holder the hanger by bending the claw.
❺ Fit projection on Ⓒ part.
❶ Install the catcher to the hanger.
❷ Install the hanger onto two claws of the housing.
hanger
❹ Fit claw on Ⓑ part.
❸ Put the housing under Ⓐ part.
❻ Fit projection on Ⓓ part.
housing
Ⓒ part
❽ Hold the hanger by bending the claw.
Ⓓ part
Ⓐ part
Ⓑ part

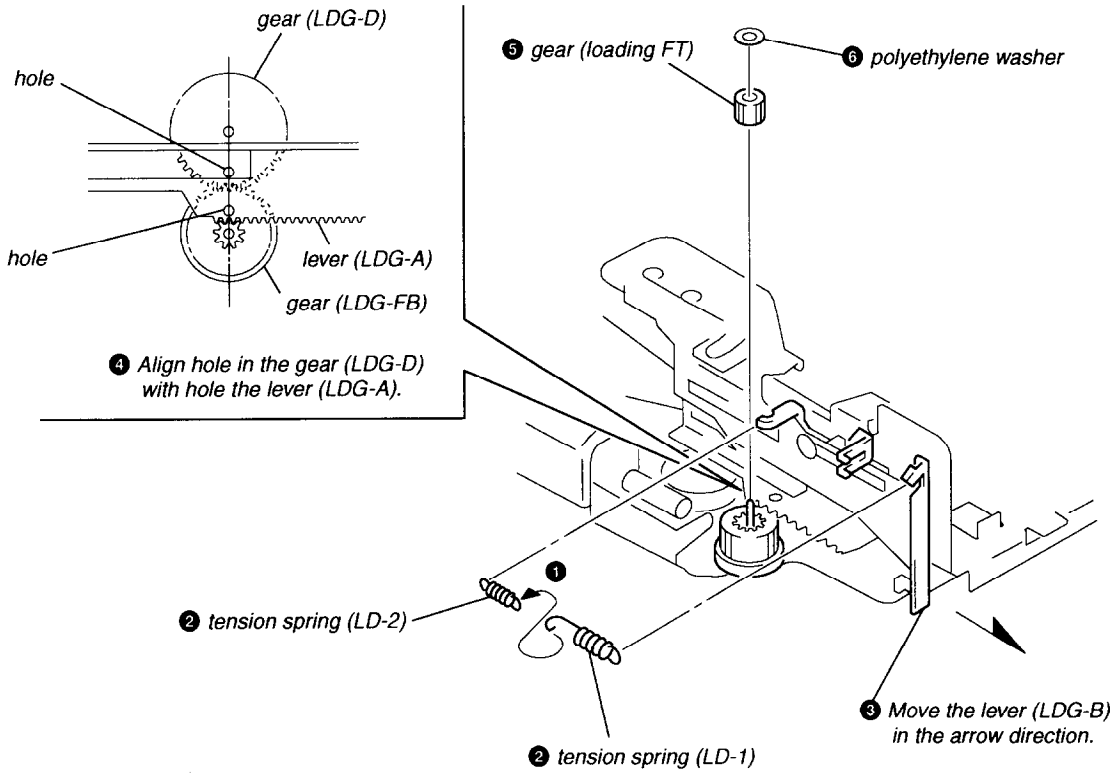
ARM (SUCTION)



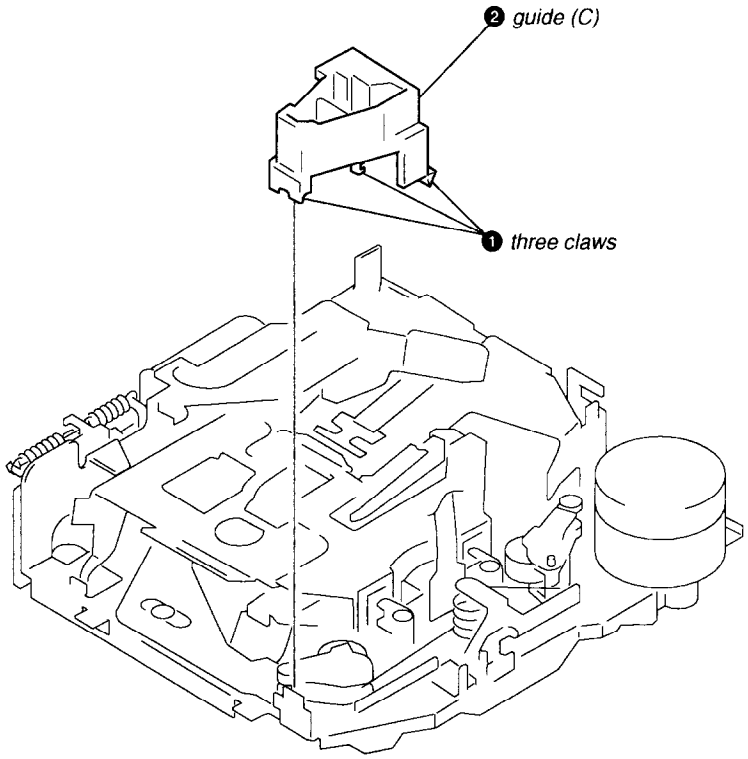
LEVER (LDG-A) / (LDG-B)


shaft Ⓐ
shaft Ⓑ
shaft Ⓒ
❶ Fit the lever (LDG-A) on shafts Ⓐ – Ⓒ and install it.
❸ type-E stop ring 2.0
❷ Fit the lever (LDG-B) on shafts Ⓐ and Ⓑ and install it.

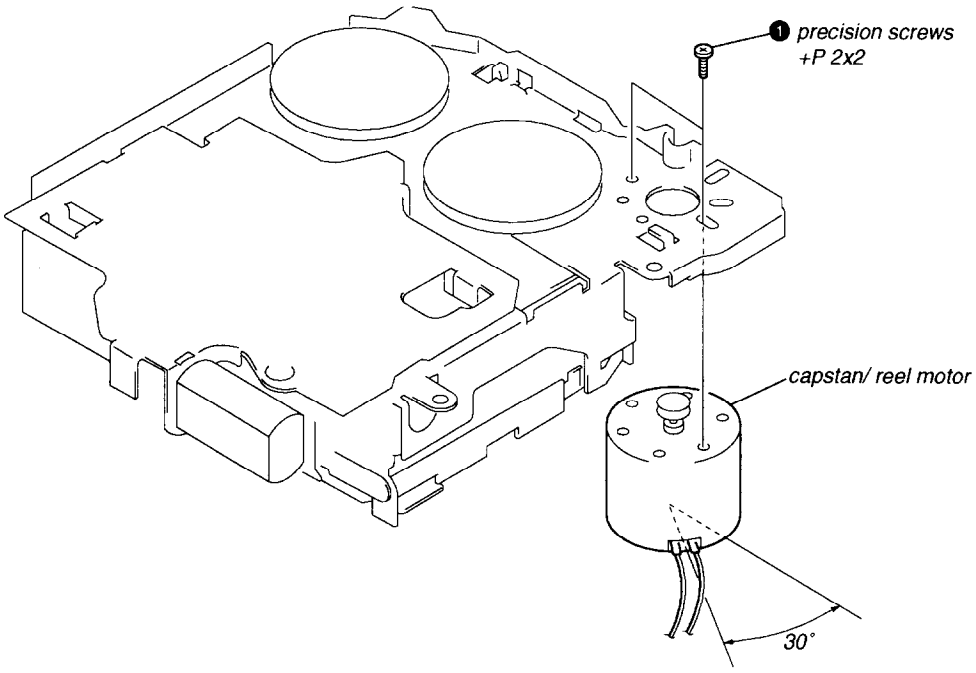
GEAR (LOADING FT)



GUIDE (C)



MOUNTING POSITION OF CAPSTAN/REEL MOTOR (M901)



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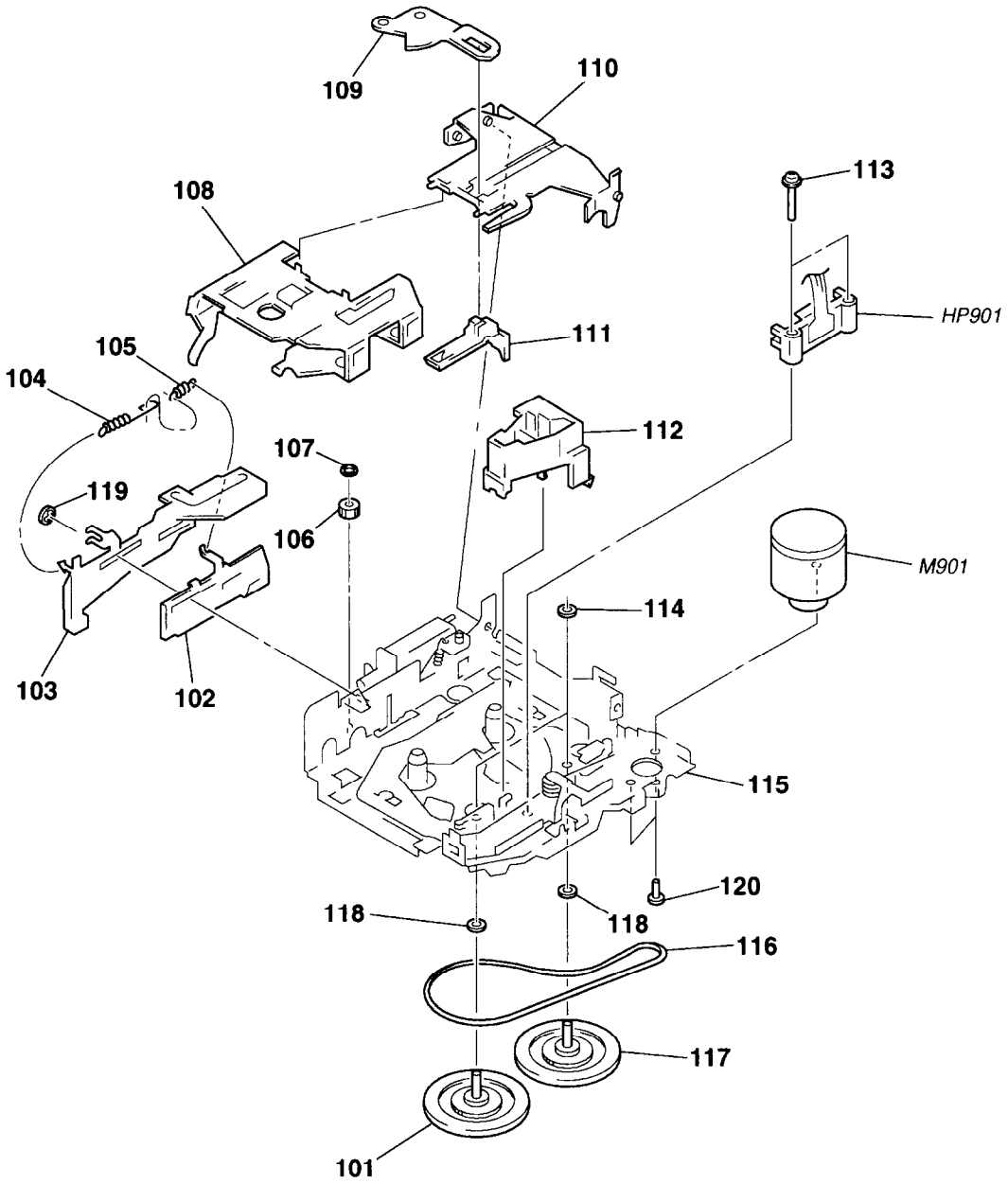
7-3. MECHANISM DECK SECTION (MG-25D-136)



Ref. No.	Part No.	Description	Remark
101	A-3291-667-A	CLUTCH (FR) ASSY	
102	3-019-130-01	LEVER (LDG-A)	
103	3-020-522-03	LEVER (LDG-B)	
104	3-020-539-01	SPRING (LD-1), TENSION	
105	3-020-540-01	SPRING (LD-2), TENSION	
106	3-020-542-01	GEAR (LOADING FT)	
107	3-341-753-11	WASHER, POLYETHYLENE	
108	3-020-533-01	HOUSING	
109	3-020-532-01	ARM (SUCTION)	
110	3-020-534-01	HANGER	
111	3-933-346-01	CATCHER	
112	3-933-344-01	GUIDE (C)	
113	3-014-798-01	SCREW (HEAD), SPECIAL	
114	3-364-151-01	WASHER	
115	X-3375-625-1	CHASSIS (SV) ASSY (D)	
116	3-017-302-01	BELT (25)	
117	3-936-853-01	FLYWHEEL (F)	
118	3-701-437-21	WASHER	
119	7-624-104-04	STOP RING 2.0, TYPE-E	
120	7-627-553-17	SCREW, PRECISION +P 2X2 TYPE 3	
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	